

Europass Curriculum Vitae



Prof. dr. ing. Romeo Susan-Resiga,
Universitatea Politehnica Timișoara

Personal information

First name(s) / Surname(s)	Romeo Florin SUSAN-RESIGA		
Address(es)	Timiș str., No. 18, RO-300650, Timișoara, Romania		
Telephone(s)	+40-256-403689	Mobile:	+40-725-890901
Fax(es)	+40-256-403692		
E-mail	romeo.resiga@upt.ro		
Nationality	Romania		
Date of birth	February 5, 1964		

Work experience

Dates	2003 - present
Occupation or position held	University Professor
Main activities and responsibilities	Courses in Fluid Mechanics and Hydraulic Machines, Numerical Methods in Hydrodynamics Director of the Research Center for Engineering of Systems with complex Fluids http://mh.mec.upt.ro/ccisfc/ Director of the Doctoral Studies Council (2012 - present) PhD advisor (OM 1437/02.07.2007);
Name and address of employer	Politehnica University Timișoara, P-ța Victoriei No. 2, Timișoara, RO-300006, Romania
Dates	2002 - present
Occupation or position held	Senior Researcher 1 st degree (part time)
Main activities and responsibilities	Head of the Hydrodynamics and Cavitation Laboratory Coordination of Research Programmes and Projects in Hydraulic Machines
Name and address of employer	Romanian Academy – Timișoara Branch, Center for Advanced Research in Engineering Science http://acad-tim.tm.edu.ro/cctfa/ , Bvd. Mihai Viteazu No. 24, Timișoara, RO-300223, Romania
Dates	1990 - 2003
Occupation or position held	Assistant Professor (1990-1995), Lecturer (1995-2000), Associate Professor (2000-2003)
Main activities and responsibilities	Courses/seminaries/laboratory in Fluid Mechanics and Hydraulic Machines, Numerical Methods in Hydrodynamics, Design of Hydraulic Machines and Systems Scientific research in numerical hydrodynamics, turbomachinery hydrodynamics, high-speed jets
Name and address of employer	Politehnica University Timișoara, P-ța Victoriei No. 2, Timișoara, RO-300006, Romania

Dates	2000 - 2002
Occupation or position held	Senior Researcher 2 nd degree (part time)
Main activities and responsibilities	Research in Hydraulic Turbines and Hydrofoil Cascades
Name and address of employer	Romanian Academy – Timișoara Branch, Center for Advanced Research in Engineering Science http://acad-tim.tm.edu.ro/cctfa/ , Bvd. Mihai Viteazu No. 24, Timișoara, RO-300223, Romania
Dates	1988 - 1990
Occupation or position held	Engineer
Main activities and responsibilities	Operation Steam and High Temperature Water Boilers, Timișoara-South Power Plant
Name and address of employer	Thermo-Electric Power Plant, Timișoara, Romania
Education and training	
Dates	1990 - 1996
Title of qualification awarded	PhD in Mechanical Engineering, Hydraulic machinery and systems
Principal subjects/occupational skills covered	PhD thesis "Hydrodynamics of High Speed Water Jets and Applications", scientific adviser Prof. Ioan Anton, member of the Romanian Academy
Name and type of organisation providing education and training	"Politehnica" University of Timișoara, Romania
Dates	1983 - 1988
Title of qualification awarded	Bachelor's Degree in Mechanical Engineering, Magna cum Laude
Principal subjects/occupational skills covered	Thermal Machines and Equipments specialization
Name and type of organisation providing education and training	"Politehnica" University of Timișoara, Romania
Dates	1978 - 1982
Title of qualification awarded	Baccalaureate mathematics-physics
Principal subjects/occupational skills covered	High school education with emphasis on mathematics and physics
Name and type of organisation providing education and training	High school for mathematics and physics "Decebal" Deva, Romania
Dates	20.08.1996-17.06.1997
Title of qualification awarded	Fulbright fellow, Visiting Researcher
Principal subjects/occupational skills covered	Unsteady Aerodynamics and Aeroacoustics, numerical simulation using domain decomposition and parallel computing
Name and type of organisation providing education and training	Notre Dame University, Indiana, U.S.A., Aerospace and Mechanical Engineering Dpt.
Fellowships and training	
Dates	01.07.1997-30.06.1998
Title of qualification awarded	Fulbright fellowship extension, Visiting Researcher
Principal subjects/occupational skills covered	Unsteady Aerodynamics and Aeroacoustics, numerical simulation using domain decomposition and parallel computing
Name and type of organisation providing education and training	Notre Dame University, Indiana, U.S.A., Aerospace and Mechanical Engineering Dpt.
Dates	01.07.1999 – 30.09.1999, 15.06.2000 – 15.09.2000
Title of qualification awarded	Postdoctoral Research Associate
Principal subjects/occupational skills covered	Unsteady Aerodynamics and Aeroacoustics, numerical simulation using domain decomposition and parallel computing

Name and type of organisation providing education and training	Notre Dame University, Indiana, U.S.A., Aerospace and Mechanical Engineering Dpt.																																																	
Dates	01.08.2001 – 30.09.2001, 01.08.2002 – 30.09.2002																																																	
Title of qualification awarded	Visiting Associate Professor																																																	
Principal subjects/occupational skills covered	Unsteady Aerodynamics and Aeroacoustics, numerical algorithms and parallel computing for near and far field aerodynamic noise computation																																																	
Name and type of organisation providing education and training	Notre Dame University, Indiana, U.S.A., Aerospace and Mechanical Engineering Dpt.																																																	
Dates	01.04.2003 – 30.04.2003, 01.04.2004 – 31.05.2004																																																	
Title of qualification awarded	Visiting Professor																																																	
Principal subjects/occupational skills covered	Turbomachinery swirling flows, stability of swirling flows in hydraulic turbines at off-design operating regimes																																																	
Name and type of organisation providing education and training	École Polytechnique Fédérale de Lausanne, Switzerland, Laboratory for Hydraulic Machines																																																	
Personal skills and competences																																																		
Mother tongue(s)	Romanian																																																	
Other language(s)																																																		
European level (*)																																																		
English																																																		
French																																																		
	<table><tr><th colspan="4">Understanding</th><th colspan="4">Speaking</th><th colspan="2">Writing</th></tr><tr><th colspan="2">Listening</th><th colspan="2">Reading</th><th colspan="2">Spoken interaction</th><th colspan="2">Spoken production</th><th colspan="2"></th></tr><tr><td>C2</td><td>Mastery or proficiency</td><td>C2</td><td>Mastery or proficiency</td><td>C2</td><td>Mastery or proficiency</td><td>C2</td><td>Mastery or proficiency</td><td>C2</td><td>Mastery or proficiency</td></tr><tr><td>C1</td><td>Effective operational proficiency</td><td>C1</td><td>Effective operational proficiency</td><td>B1</td><td>Threshold or intermediate</td><td>B1</td><td>Threshold or intermediate</td><td>B1</td><td>Threshold or intermediate</td></tr></table>										Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production				C2	Mastery or proficiency	C2	Mastery or proficiency	C2	Mastery or proficiency	C2	Mastery or proficiency	C2	Mastery or proficiency	C1	Effective operational proficiency	C1	Effective operational proficiency	B1	Threshold or intermediate	B1	Threshold or intermediate	B1	Threshold or intermediate
Understanding				Speaking				Writing																																										
Listening		Reading		Spoken interaction		Spoken production																																												
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C1	Effective operational proficiency	C1	Effective operational proficiency	B1	Threshold or intermediate	B1	Threshold or intermediate	B1	Threshold or intermediate																																									
	(*) Common European Framework of Reference for Languages																																																	
Membership in international professional associations	<ul style="list-style-type: none">➤ Member of the European Science Foundation – Physical and Engineering Science Committee, 2008 - 2011➤ Member of the Executive Committee, Division of Hydraulic Machinery and Systems, International Association of Hydro-Environment Engineering and Research (IAHR), 2004 – present, Chairman of the Workgroup on Cavitation and Dynamic Problems (2014-present)																																																	
International Conferences Organizer	<ul style="list-style-type: none">➤ Chairman of the 25th IAHR Symposium on Hydraulic Machinery and Systems, Timișoara, 2010, http://acad-tim.tm.edu.ro/iahr2010/, editor of the proceedings in the IOP Conference Series: Earth and Environmental Science, http://iopscience.iop.org/1755-1315/12/1➤ Chairman of the 2nd IAHR International Meeting of the WorkGroup on Cavitation and Dynamics Problems in Hydraulic Machinery and Systems, Timișoara, 2007, http://mh.mec.upt.ro/iahrwg2007/➤ Organizer and proceedings editor of the 6th International Conference on Hydraulic Machinery and Hydrodynamics HMM2004, Timișoara, 2004, http://mh.mec.upt.ro/hmh2004/																																																	
PhD thesis advisor	<ul style="list-style-type: none">➤ Bosioc A.I. (2011), Bistriean D. (2011), Tănăsă C. (2012), Moisă I. (2013), Ciocan T. (2014), Ighișan C. (2015), Totorean A. (2016), Popescu C. (to be defended 2019), Farago A. (student)																																																	
Management experience	<ul style="list-style-type: none">➤ Adviser for the President of the National Authority for Scientific Research, June-Dec. 2012➤ Adviser for the Secretary of State in charge with research-development and innovation within the Ministry of National Education, Jan. 2013 – Mar. 2015.➤ Adviser for the Minister of Education and Research, Dec. 2015 – Jun. 2016➤ Director of the Research Center for Engineering of Systems with complex Fluids, Politehnica University Timișoara, 2002-present.➤ Director of Doctoral Studies Council, Politehnica University Timișoara, 2012 – present.➤ Member of the Romanian National University Research Council (CNCSIS), 2007-2011, Chairman of the Engineering Sciences Committee.																																																	

Total 67 publications Web of Science, **H-index = 11** (452 citations, 348 without self-citations)

Total 77 publications SCOPUS, **H-index = 11** (total 580 citations)

Google Scholar **H-index = 22**. **Selected papers and projects**

10 papers (for more information <http://www.researcherid.com/rid/C-3417-2011>)

1. **Susan-Resiga, R.**, Muntean, S., Stuparu, A., Bosioc, A. I., Tănasă, C. and Ighișan, C. 2016, A variational model for swirling flow states with stagnant region, *European Journal of Mechanics B/Fluids*, **55**, pp. 104-115.
2. Tănasă, C., **Susan-Resiga, R.**, Muntean, S., Bosioc, A. I., 2013, Flow-Feedback Method for Mitigating the Vortex Rope in Decelerated Swirling Flows, *Journal of Fluids Engineering*, **135**(6): 061304-11.
3. Bosioc, A.I., **Susan-Resiga R.**, Muntean S., and Tănasă, C. 2012, Unsteady Pressure Analysis of a Swirling Flow With Vortex Rope and Axial Water Injection in a Discharge Cone, *Journal of Fluids Engineering*, **134**(8): 081104-11.
4. **Susan-Resiga, R.**, Muntean, S., Avellan, F., and Anton, I., 2011, Mathematical modeling of swirling flow in hydraulic turbines for the full operating range, *Applied Mathematical Modelling*, **35**(10), pp. 4759-4773.
5. Susan-Resiga, R., Muntean S., Hasmatuchi, V., Anton, I., and Avellan, F., 2010, Analysis and prevention of vortex breakdown in the simplified discharge cone of a Francis turbine, *Journal of Fluids Engineering*, **132**(5): 051102.
6. Marșavina, L., **Susan-Resiga, R.**, Faur, N., and Negru, R., 2010, Methodology to assess integrity with application to collector copper lamellas, *Theoretical and Applied Fracture Mechanics*, Vol. 53(2), pp. 136-144.
7. **Susan-Resiga, R.**, Ciocan, G.D., Anton, I., and Avellan, F., 2006, Analysis of the swirling flow downstream a Francis turbine runner, *Journal of Fluids Engineering*, Vol. 128(1), pp. 177-189.
8. Boia, E.S., **Susan-Resiga, R.**, Raicov, P.C., Popoiu, C.M., Iacob, R.E., 2005, Determination of the mechanical requirements for a progressive correction system of pectus excavatum in children, *Journal of Laparoendoscopic & Advanced Surgical Techniques*, Vol. 15(5), pp. 478-481.
9. **Susan-Resiga, R.**, and Atassi, H.M., 2001, Domain-decomposition method for time-harmonic aeroacoustic problems, *AIAA Journal*, Vol. 39(5), pp. 802-809.
10. **Susan-Resiga, R.**, and Atassi, H.M., 1998, A domain decomposition method for the exterior Helmholtz problem, *Journal of Computational Physics*, Vol. 147(2), pp. 388-401.

10 research grants and projects (director **Susan-Resiga R.**)

1. Self-induced instabilities of the swirling flow in hydraulic turbines far from the best efficiency regime, exploratory research project PN-II-ID-PCE-2012-4-0634 (2013-2016)
2. Modelling the Two-Dimensional Swirling Flow in Francis Turbines for Optimization of Draft Tube Performances within and Operating Range, *ALSTOM Hydro France*, UPT BCI 4/2012.
3. Modelling and optimization of the swirling flow ingested by the draft tube of a Francis turbine, *ALSTOM Hydro France*, UPT BCI 1/2011.
4. Numerical Simulation of the Pump Hydrodynamics with Heat Transfer, *S.C. Zoppas Industries Romania*, UPT 147/2008 și 129/2009.
5. Taming the Vortex Rope – TAVORO projects, *General Electric Hydro – Canada*, UPT 5214/2007.
6. Turbomachinery swirling flow optimization and control with technology of magnetorheological fluid systems, *Swiss National Science Foundation*, Scopes project IB7320-110942, UPT 6/2005.
7. Simulare și analiza pompa MP3X, *S.C. Hella Electronics S.R.L.*, UPT BC 771/2007.
8. Hidrodinamica Vârtejurilor și Aplicații, *Grant CNCSIS-A Consorțiu*, 33/2006
9. Thermo-hydrodynamic optimization of a cooling cell with partial cross-walls, *Siemens VDO Automotive Germany*, UPT 1521266/2005
10. Metode Moderne de Calcul Paralel pentru Simularea Numerică a Curgerii Fluidelor și Aplicații la Mașini și Sisteme Hidro-Pneumatice, *Grant CNCSIS-A* 109/2002.

Record 1 of 67**Title:** Analysis of the swirling flow downstream a Francis turbine runner**Author(s):** Susan-Resiga, R (Susan-Resiga, Romeo); Ciocan, GD (Ciocan, Gabriel Dan); Anton, I (Anton, Ioan); Avellan, F (Avellan, Francois)**Source:** JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME **Volume:** 128 **Issue:** 1 **Pages:** 177-189 **DOI:** 10.1115/1.2137341 **Published:** JAN 2006**Accession Number:** WOS:000237928900024**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Ciocan, Gabriel Dan	B-9280-2011	0000-0002-1217-5719
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Avellan, Francois		0000-0001-9954-3360

ISSN: 0098-2202**eISSN:** 1528-901X**Record 2 of 67****Title:** Unsteady Pressure Analysis of a Swirling Flow With Vortex Rope and Axial Water Injection in a Discharge Cone**Author(s):** Bosioc, AI (Bosioc, Alin Ilie); Susan-Resiga, R (Susan-Resiga, Romeo); Muntean, S (Muntean, Sebastian); Tanasa, C (Tanasa, Constantin)**Source:** JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME **Volume:** 134 **Issue:** 8 **Article Number:** 081104 **DOI:** 10.1115/1.4007074 **Published:** AUG 2012**Accession Number:** WOS:000314759800004**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Bosioc, Alin	M-1460-2019	
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 0098-2202**eISSN:** 1528-901X**Record 3 of 67****Title:** Mathematical modelling of swirling flow in hydraulic turbines for the full operating range**Author(s):** Susan-Resiga, RF (Susan-Resiga, R. F.); Muntean, S (Muntean, S.); Avellan, F (Avellan, F.); Anton, I (Anton, I.)**Source:** APPLIED MATHEMATICAL MODELLING **Volume:** 35 **Issue:** 10 **Pages:** 4759-4773 **DOI:** 10.1016/j.apm.2011.03.052 **Published:** OCT 2011**Accession Number:** WOS:000292176200007**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
Avellan, Francois		0000-0001-9954-3360

ISSN: 0307-904X**Record 4 of 67****Title:** Analysis and Prevention of Vortex Breakdown in the Simplified Discharge Cone of a Francis Turbine**Author(s):** Susan-Resiga, R (Susan-Resiga, Romeo); Muntean, S (Muntean, Sebastian); Hasmatuchi, V (Hasmatuchi, Vlad); Anton, I (Anton, Ioan); Avellan, F (Avellan, Francois)**Source:** JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME **Volume:** 132 **Issue:** 5 **Article Number:** 051102 **DOI:** 10.1115/1.4001486 **Published:** MAY 2010**Accession Number:** WOS:000277744700002**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
Avellan, Francois		0000-0001-9954-3360

ISSN: 0098-2202**eISSN:** 1528-901X**Record 5 of 67****Title:** Experimental and Numerical Investigation of the Precessing Helical Vortex in a Conical Diffuser, With Rotor-Stator Interaction**Author(s):** Javadi, A (Javadi, A.); Bosioc, A (Bosioc, A.); Nilsson, H (Nilsson, H.); Muntean, S (Muntean, S.); Susan-Resiga, R (Susan-Resiga, R.)**Source:** JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME **Volume:** 138 **Issue:** 8 **Article Number:** 081106 **DOI:** 10.1115/1.4033416 **Published:** AUG 2016**Accession Number:** WOS:000379589700006**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Nilsson, Hakan	AAM-7818-2020	

Bosioc, Alin	M-1460-2019	
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 0098-2202

eISSN: 1528-901X

Record 6 of 67

Title: Fluid dynamics in helical geometries with applications for by-pass grafts

Author(s): Totorean, AF (Totorean, Alin F.); Bernad, SI (Bernad, Sandor I.); Susan-Resiga, RF (Susan-Resiga, Romeo F.)

Source: APPLIED MATHEMATICS AND COMPUTATION Volume: 272 Pages: 604-613 DOI: 10.1016/j.amc.2015.05.030 Part: 3 Published: JAN 1 2016

Accession Number: WOS:000364991600004

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Bernad, Sandor I	V-7953-2018	0000-0002-0617-5376
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 0096-3003

eISSN: 1873-5649

Record 7 of 67

Title: Flow-Feedback Method for Mitigating the Vortex Rope in Decelerated Swirling Flows

Author(s): Tanasa, C (Tanasa, Constantin); Susan-Resiga, R (Susan-Resiga, Romeo); Muntean, S (Muntean, Sebastian); Bosioc, AI (Bosioc, Alin Ilie)

Source: JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME Volume: 135 Issue: 6 Article Number: 061304 DOI:

10.1115/1.4023946 Published: JUN 2013

Accession Number: WOS:000326103300011

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Bosioc, Alin	M-1460-2019	
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 0098-2202

eISSN: 1528-901X

Record 8 of 67

Title: IDENTIFICATION AND VISUALIZATION OF VORTICES IN BY-PASS GRAFT FLOW

Author(s): Totorean, AF (Totorean, Alin F.); Bosioc, AI (Bosioc, Alin I.); Bernad, SI (Bernad, Sandor I.); Susan-Resiga, R (Susan-Resiga, Romeo)

Source: PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE Volume: 15 Issue:

1 Pages: 52-59 Published: JAN-MAR 2014

Accession Number: WOS:000333795600007

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Bernad, Sandor I	V-7953-2018	0000-0002-0617-5376
Bosioc, Alin	M-1460-2019	
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Bernad, Elena		0000-0003-1084-2714

ISSN: 1454-9069

Record 9 of 67

Title: Validation of mathematical models for predicting the swirling flow and the vortex rope in a Francis turbine operated at partial discharge

Author(s): Kuibin, PA (Kuibin, P. A.); Okulov, VL (Okulov, V. L.); Susan-Resiga, RF (Susan-Resiga, R. F.); Muntean, S (Muntean, S.)

Edited by: SusanResiga R; Muntean S; Bernad S

Source: 25TH IAHR SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS Book Series: IOP Conference Series-Earth and Environmental Science Volume:

12 Article Number: UNSP 012051 DOI: 10.1088/1755-1315/12/1/012051 Published: 2010

Accession Number: WOS:000325657000051

Conference Title: 25th IAHR Symposium on Hydraulic Machinery and Systems

Conference Date: SEP 20-24, 2010

Conference Location: Politehnica Univ Timisoara, Timisoara, ROMANIA

Conference Sponsors: Int Assoc Hydro Environm Engr & Res, Romanian Acad, Timisoara Branch, Natl Author Sci Res, Hidroelectrica S A, UCM Resita, Machine Buiding Factory, Hydro Engr S A, Voith Hydro Holding GmbH, Andritz Hydro GmbH, Alstom Hydro, Adv Design Technol Ltd

Conference Host: Politehnica Univ Timisoara

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Okulov, Valery L	I-2955-2012	0000-0002-5518-4869
Kuibin, Pavel A	A-6757-2014	0000-0001-7009-4629
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 1755-1307

Record 10 of 67

Title: CRITICAL FLOW REGIONS IN THE CORONARY BY-PASS GRAFT ANASTOMOSIS

Author(s): Totorean, AF (Totorean, Alin F.); Bosioc, AI (Bosioc, Alin I.); Bernad, SI (Bernad, Sandor I.); Susan-Resiga, R (Susan-Resiga, Romeo)

Source: PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE **Volume:** 16 **Issue:** 2 **Pages:** 201-208 **Published:** APR-JUN 2015
Accession Number: WOS:000357362300011
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Bernad, Sandor I	V-7953-2018	0000-0002-0617-5376
Bosioc, Alin	M-1460-2019	
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 1454-9069

Record 11 of 67

Title: Unsteady pressure measurements of decelerated swirling flow in a discharge cone at lower runner speeds
Author(s): Bosioc, AI (Bosioc, A. I.); Muntean, S (Muntean, S.); Tanasa, C (Tanasa, C.); Susan-Resiga, R (Susan-Resiga, R.); Vekas, L (Vekas, L.)
Edited by: Desy N; Deschenes C; Guibault F; Page M; Turgeon M; Giroux AM
Source: 27TH IAHR SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS (IAHR 2014), PTS 1-7 **Book Series:** IOP Conference Series-Earth and Environmental Science **Volume:** 22 **Article Number:** UNSP 032008 **DOI:** 10.1088/1755-1315/22/3/032008 **Published:** 2014
Accession Number: WOS:000347441900066
Conference Title: 27th IAHR Symposium on Hydraulic Machinery and Systems (IAHR)
Conference Date: SEP 22-26, 2014
Conference Location: Montreal, CANADA
Conference Sponsors: Andritz, SNC, ALSTOM, VOITH, HYDRO QUEBEC, AECOM, Ecole Polytechnique Montreal, Hatch, Ecole Technologie Superieure, Exp, BBA, Univ Laval, Brookfield, Ressources Naturelles Quebec, Tourisme Montreal
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
Bosioc, Alin	M-1460-2019	
Vekas, Ladislau N	C-4566-2011	
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Vekas, Ladislau		0000-0002-8553-4049

ISSN: 1755-1307

Record 12 of 67

Title: Computation of stress distribution in a Francis turbine runner induced by fluid flow
Author(s): Negru, R (Negru, R.); Muntean, S (Muntean, S.); Marsavina, L (Marsavina, L.); Susan-Resiga, R (Susan-Resiga, R.); Pasca, N (Pasca, N.)
Source: COMPUTATIONAL MATERIALS SCIENCE **Volume:** 64 **Pages:** 253-259 **DOI:** 10.1016/j.commatsci.2012.05.073 **Published:** NOV 2012
Accession Number: WOS:000308396200053
Conference Title: 21st International Workshop on Computational Mechanics of Materials (IWCMM)
Conference Date: AUG 22-24, 2011
Conference Location: Univ Limerick, Limerick, IRELAND
Conference Host: Univ Limerick
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Pasca, Niculai	A-7774-2012	
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510

ISSN: 0927-0256

eISSN: 1879-0801

Record 13 of 67

Title: Proper Orthogonal Decomposition of Self-Induced Instabilities in Decelerated Swirling Flows and Their Mitigation Through Axial Water Injection
Author(s): Stefan, D (Stefan, David); Rudolf, P (Rudolf, Pavel); Muntean, S (Muntean, Sebastian); Susan-Resiga, R (Susan-Resiga, Romeo)
Source: JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME **Volume:** 139 **Issue:** 8 **Article Number:** 081101 **DOI:** 10.1115/1.4036244 **Published:** AUG 2017
Accession Number: WOS:000403876900001
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Stefan, David	V-9551-2017	0000-0003-4230-5219
Rudolf, Pavel	I-9334-2016	0000-0003-2622-7898
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510

ISSN: 0098-2202

eISSN: 1528-901X

Record 14 of 67

Title: Influence of the velocity field at the inlet of a Francis turbine draft tube on performance over an operating range
Author(s): Susan-Resiga, R (Susan-Resiga, R.); Muntean, S (Muntean, S.); Ciocan, T (Ciocan, T.); Joubarne, E (Joubarne, E.); Leroy, P (Leroy, P.); Bornard, L (Bornard, L.)
Edited by: Wu Y; Wang Z; Liu S; Yuan S; Luo X; Wang F
Source: 26TH IAHR SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS, PTS 1-7 **Book Series:** IOP Conference Series-Earth and Environmental Science **Volume:** 15 **Article Number:** 032008 **DOI:** 10.1088/1755-1315/15/3/032008 **Published:** 2013

Accession Number: WOS:000324782300038

Conference Title: 26th IAHR Symposium on Hydraulic Machinery and Systems

Conference Date: AUG 19-23, 2012

Conference Location: Tsinghua Univ, Beijing, PEOPLES R CHINA

Conference Sponsors: Int Assoc Hydro Environm Engr & Res, State Key Lab Hydro Sci & Hydraul Engr, Jiangsu Univ, Xian Univ Technol, China Agr Univ, Harbin Elect Machinery Co Ltd, Natl Engr Res Ctr Hydropower Equipment, Dongfang Elect Machinery Co Ltd, Toshiba Hydro Power Co Ltd, Zhejiang Fuchunjiang Hydropower, Voith Hydro, Alstom Hydro

Conference Host: Tsinghua Univ

Author Identifiers:

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SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 1755-1307

Record 15 of 67

Title: A domain decomposition method for the exterior Helmholtz problem

Author(s): Susan-Resiga, RF (Susan-Resiga, RF); Atassi, HM (Atassi, HM)

Source: JOURNAL OF COMPUTATIONAL PHYSICS **Volume:** 147 **Issue:** 2 **Pages:** 388-401 **DOI:** 10.1006/jcph.1998.6094 **Published:** DEC 10 1998

Accession Number: WOS:000077525800007

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 0021-9991

Record 16 of 67

Title: Modelling and optimization of the velocity profiles at the draft tube inlet of a Francis turbine within an operating range

Author(s): Ciocan, T (Ciocan, Tiberiu); Susan-Resiga, RF (Susan-Resiga, Romeo F.); Muntean, S (Muntean, Sebastian)

Source: JOURNAL OF HYDRAULIC RESEARCH **Volume:** 54 **Issue:** 1 **Pages:** 74-89 **DOI:** 10.1080/00221686.2015.1119763 **Published:** JAN 2 2016

Accession Number: WOS:000370980100005

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
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Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510

ISSN: 0022-1686

eISSN: 1814-2079

Record 17 of 67

Title: PRESSURE RECOVERY IMPROVEMENT IN A CONICAL DIFFUSER WITH SWIRLING FLOW USING WATER JET INJECTION

Author(s): Bosioc, AI (Bosioc, Alin I.); Tanasa, C (Tanasa, Constantin); Muntean, S (Muntean, Sebastian); Susan-Resiga, RF (Susan-Resiga, Romeo F.)

Source: PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE **Volume:** 11 **Issue:** 3 **Pages:** 245-252 **Published:** JUL-SEP 2010

Accession Number: WOS:000208624600008

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Bosioc, Alin	M-1460-2019	
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510

ISSN: 1454-9069

Record 18 of 67

Title: Determination of the mechanical requirements for a progressive correction system of pectus excavatum in children

Author(s): Boia, ES (Boia, ES); Susan-Resiga, R (Susan-Resiga, R); Raicov, PC (Raicov, PC); Popoiu, CM (Popoiu, CM); Iacob, RE (Iacob, RE)

Source: JOURNAL OF LAPAROENDOSCOPIC & ADVANCED SURGICAL TECHNIQUES **Volume:** 15 **Issue:** 5 **Pages:** 478-481 **DOI:** 10.1089/lap.2005.15.478 **Published:** OCT 2005

Accession Number: WOS:000232317200008

PubMed ID: 16185120

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 1092-6429

Record 19 of 67

Title: Velocity and pressure fluctuations induced by the precessing helical vortex in a conical diffuser

Author(s): Javadi, A (Javadi, A.); Bosioc, A (Bosioc, A.); Nilsson, H (Nilsson, H.); Muntean, S (Muntean, S.); Susan-Resiga, R (Susan-Resiga, R.)

Edited by: Desy N; Deschenes C; Guibault F; Page M; Turgeon M; Giroux AM

Source: 27TH IAHR SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS (IAHR 2014), PTS 1-7 **Book Series:** IOP Conference Series-Earth and Environmental Science **Volume:** 22 **Article Number:** UNSP 032009 **DOI:** 10.1088/1755-1315/22/3/032009 **Published:** 2014

Accession Number: WOS:000347441900067

Conference Title: 27th IAHR Symposium on Hydraulic Machinery and Systems (IAHR)

Conference Date: SEP 22-26, 2014

Conference Location: Montreal, CANADA

Conference Sponsors: Andritz, SNC, ALSTOM, VOITH, HYDRO QUEBEC, AECOM, Ecole Polytechnique Montreal, Hatch, Ecole Technologie Superieure, Exp, BBA, Univ Laval, Brookfield, Ressources Naturelles Quebec, Tourisme Montreal

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
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Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
Nilsson, Hakan	AAM-7818-2020	
Bosioc, Alin	M-1460-2019	

ISSN: 1755-1307

Record 20 of 67

Title: Weighted proper orthogonal decomposition of the swirling flow exiting the hydraulic turbine runner

Author(s): Bistrian, DA (Bistrian, D. A.); Susan-Resiga, RF (Susan-Resiga, R. F.)

Source: APPLIED MATHEMATICAL MODELLING **Volume:** 40 **Issue:** 5-6 **Pages:** 4057-4078 **DOI:** 10.1016/j.apm.2015.11.015 **Published:** MAR 2016

Accession Number: WOS:000371839700043

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
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Bistrian, Diana Alina	B-6792-2012	0000-0001-8957-5879

ISSN: 0307-904X

eISSN: 1872-8480

Record 21 of 67

Title: PUMP INDUCER OPTIMIZATION BASED ON CAVITATION CRITERION

Author(s): Moisa, IG (Moisa, Irina Georgeta); Susan-Resiga, R (Susan-Resiga, Romeo); Muntean, S (Muntean, Sebastian)

Source: PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE **Volume:** 14 **Issue:** 4 **Pages:** 317-325 **Published:** OCT-DEC 2013

Accession Number: WOS:000328441500008

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 1454-9069

Record 22 of 67

Title: IMPROVING DRAFT TUBE HYDRODYNAMICS OVER A WIDE OPERATING RANGE

Author(s): Ciocan, T (Ciocan, Tiberiu); Susan-Resiga, R (Susan-Resiga, Romeo); Muntean, S (Muntean, Sebastian)

Source: PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE **Volume:** 15 **Issue:** 2 **Pages:** 182-190 **Published:** APR-JUN 2014

Accession Number: WOS:000336714400011

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510

ISSN: 1454-9069

Record 23 of 67

Title: FLOW-FEEDBACK CONTROL TECHNIQUE FOR VORTEX ROPE MITIGATION FROM CONICAL DIFFUSER OF HYDRAULIC TURBINES DRAFT TUBE

Author(s): Tanasa, C (Tanasa, Constantin); Bosioc, AI (Bosioc, Alin I.); Muntean, S (Muntean, Sebastian); Susan-Resiga, RF (Susan-Resiga, Romeo F.)

Source: PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE **Volume:** 12 **Issue:** 2 **Pages:** 125-132 **Published:** APR-JUN 2011

Accession Number: WOS:000291510700007

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
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Bosioc, Alin	M-1460-2019	
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510

ISSN: 1454-9069

Record 24 of 67

Title: Unsteady pressure measurements and numerical investigation of the jet control method in a conical diffuser with swirling flow

Author(s): Bosioc, AI (Bosioc, A. I.); Tanasa, C (Tanasa, C.); Muntean, S (Muntean, S.); Susan-Resiga, RF (Susan-Resiga, R. F.)

Edited by: SusanResiga R; Muntean S; Bernad S

Source: 25TH IAHR SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS **Book Series:** IOP Conference Series-Earth and Environmental Science **Volume:** 12 **Article Number:** UNSP 012017 **DOI:** 10.1088/1755-1315/12/1/012017 **Published:** 2010

Accession Number: WOS:000325657000017
Conference Title: 25th IAHR Symposium on Hydraulic Machinery and Systems
Conference Date: SEP 20-24, 2010
Conference Location: Politehnica Univ Timisoara, Timisoara, ROMANIA
Conference Sponsors: Int Assoc Hydro Environm Engr & Res, Romanian Acad, Timisoara Branch, Natl Author Sci Res, Hidroelectrica S A, UCM Resita, Machine Buiding Factory, Hydro Engr S A, Voith Hydro Holding GmbH, Andritz Hydro GmbH, Alstom Hydro, Adv Design Technol Ltd
Conference Host: Politehnica Univ Timisoara
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Bosioc, Alin	M-1460-2019	
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 1755-1307

Record 25 of 67

Title: Mitigation of pressure fluctuations in the discharge cone of hydraulic turbines using Flow-Feedback
Author(s): Tanasa, C (Tanasa, C.); Susan-Resiga, R (Susan-Resiga, R.); Bosioc, A (Bosioc, A.); Muntean, S (Muntean, S.)
Edited by: SusanResiga R; Muntean S; Bernad S
Source: 25TH IAHR SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS **Book Series:** IOP Conference Series-Earth and Environmental Science **Volume:** 12 **Article Number:** UNSP 012067 **DOI:** 10.1088/1755-1315/12/1/012067 **Published:** 2010

Accession Number: WOS:000325657000067
Conference Title: 25th IAHR Symposium on Hydraulic Machinery and Systems
Conference Date: SEP 20-24, 2010
Conference Location: Politehnica Univ Timisoara, Timisoara, ROMANIA
Conference Sponsors: Int Assoc Hydro Environm Engr & Res, Romanian Acad, Timisoara Branch, Natl Author Sci Res, Hidroelectrica S A, UCM Resita, Machine Buiding Factory, Hydro Engr S A, Voith Hydro Holding GmbH, Andritz Hydro GmbH, Alstom Hydro, Adv Design Technol Ltd
Conference Host: Politehnica Univ Timisoara
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Bosioc, Alin	M-1460-2019	
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 1755-1307

Record 26 of 67

Title: Numerical Methods Based On Shifted Polynomials In Swirling Flows Stability Analysis
Author(s): Susan-Resiga, R (Susan-Resiga, Romeo); Savii, GG (Savii, George G.); Maksay, S (Maksay, Stefan); Bistrrian, DA (Bistrrian, Diana A.)
Edited by: Mastorakis NE; Mladenov V; Bojkovic Z; Kartalopoulos S; Varonides A; Jha M; Simian D
Source: PROCEEDINGS OF THE 13TH WSEAS INTERNATIONAL CONFERENCE ON COMPUTERS **Book Series:** Recent Advances in Computer Engineering **Pages:** 481-+ **Published:** 2009

Accession Number: WOS:000276790600074
Conference Title: 13th WSEAS International Conference on Computers
Conference Date: JUL 23-25, 2009
Conference Location: Rhodes, GREECE
Conference Sponsors: WSEAS
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Bistrrian, Diana Alina	B-6792-2012	0000-0001-8957-5879
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Savii, George G.	G-6261-2013	0000-0001-6214-9757

ISSN: 1790-5109

ISBN: 978-960-474-099-4

Record 27 of 67

Title: Cavitation phenomena in hydraulic valves. Numerical modelling
Author(s): Bernad, S (Bernad, Sandor); Susan-Resiga, R (Susan-Resiga, Romeo); Muntean, S (Muntean, Sebastian); Anton, I (Anton, Ioan)
Source: PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE **Volume:** 8 **Issue:** 2 **Pages:** 151-160 **Published:** MAY-AUG 2007
Accession Number: WOS:000255027200010
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Bernad, Sandor	C-3546-2012	
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 1454-9069

Record 28 of 67

Title: SWIRL2D: AN INTERFACE TRACKING ALGORITHM FOR COMPUTING THE TWO-DIMENSIONAL SWIRLING FLOWS WITH STAGNANT REGION
Author(s): Anton, AA (Anton, Alin-Adrian); Muntean, S (Muntean, Sebastian); Susan-Resiga, RF (Susan-Resiga, Romeo F.)

Source: PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE **Volume:** 17 **Issue:** 4 **Pages:** 366-373 **Published:** OCT-DEC 2016
Accession Number: WOS:000394189900012
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510

ISSN: 1454-9069

Record 29 of 67

Title: 3D Numerical Simulation versus Experimental Assessment of Pressure Pulsations Using a Passive Method for Swirling Flow Control in Conical Diffusers of Hydraulic Turbines
Author(s): Tanasa, C (Tanasa, C.); Muntean, S (Muntean, S.); Ciocan, T (Ciocan, T.); Susan-Resiga, RF (Susan-Resiga, R. F.)
Book Group Author(s): IOP
Source: 28TH IAHR SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS (IAHR2016), PTS 1-12 **Book Series:** IOP Conference Series-Earth and Environmental Science **Volume:** 49 **Article Number:** 082018 **DOI:** 10.1088/1755-1315/49/8/082018 **Published:** 2016
Accession Number: WOS:000400156200123
Conference Title: 28th IAHR Symposium on Hydraulic Machinery and Systems (IAHR)
Conference Date: JUL 04-08, 2016
Conference Location: Grenoble, FRANCE
Conference Sponsors: IAHR, Grenoble Inst Technol, French Hydraul Soc, Andritz Hydro, CERG, HydroLike, VOITH, GE, eDF, CNR, Harbin Elect Machinery Co Ltd, NUMECA Int, Power Vis Engrn, YLEC Consultants
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510

ISSN: 1755-1307

Record 30 of 67

Title: A model for precessing helical vortex in the turbine discharge cone
Author(s): Kuibin, PA (Kuibin, P. A.); Susan-Resiga, RF (Susan-Resiga, R. F.); Muntean, S (Muntean, S.)
Edited by: Desy N; Deschenes C; Guibault F; Page M; Turgeon M; Giroux AM
Source: 27TH IAHR SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS (IAHR 2014), PTS 1-7 **Book Series:** IOP Conference Series-Earth and Environmental Science **Volume:** 22 **Article Number:** UNSP 022024 **DOI:** 10.1088/1755-1315/22/2/022024 **Published:** 2014
Accession Number: WOS:000347441900058
Conference Title: 27th IAHR Symposium on Hydraulic Machinery and Systems (IAHR)
Conference Date: SEP 22-26, 2014
Conference Location: Montreal, CANADA
Conference Sponsors: Andritz, SNC, ALSTOM, VOITH, HYDRO QUEBEC, AECOM, Ecole Polytechnique Montreal, Hatch, Ecole Technologie Superieure, Exp, BBA, Univ Laval, Brookfield, Ressources Naturelles Quebec, Tourisme Montreal
Author Identifiers:

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SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 1755-1307

Record 31 of 67

Title: Mathematical, numerical and experimental analysis of the swirling flow at a Kaplan runner outlet
Author(s): Muntean, S (Muntean, S.); Ciocan, T (Ciocan, T.); Susan-Resiga, RF (Susan-Resiga, R. F.); Cervantes, M (Cervantes, M.); Nilsson, H (Nilsson, H.)
Edited by: Wu Y; Wang Z; Liu S; Yuan S; Luo X; Wang F
Source: 26TH IAHR SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS, PTS 1-7 **Book Series:** IOP Conference Series-Earth and Environmental Science **Volume:** 15 **Article Number:** 032001 **DOI:** 10.1088/1755-1315/15/3/032001 **Published:** 2013
Accession Number: WOS:000324782300031
Conference Title: 26th IAHR Symposium on Hydraulic Machinery and Systems
Conference Date: AUG 19-23, 2012
Conference Location: Tsinghua Univ, Beijing, PEOPLES R CHINA
Conference Sponsors: Int Assoc Hydro Environm Engrn & Res, State Key Lab Hydro Sci & Hydraul Engrn, Jiangsu Univ, Xian Univ Technol, China Agr Univ, Harbin Elect Machinery Co Ltd, Natl Engrn Res Ctr Hydropower Equipment, Dongfang Elect Machinery Co Ltd, Toshiba Hydro Power Co Ltd, Zhejiang Fuchunjiang Hydropower, Voith Hydro, Alstom Hydro
Conference Host: Tsinghua Univ
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
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Nilsson, Hakan	AAM-7818-2020	
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510

ISSN: 1755-1307

Record 32 of 67

Title: Competitive Flow and Anastomosis Angle Influence on Bypass Hemodynamics in Unsteady Flow Conditions
Author(s): Totorean, AF (Totorean, A. F.); Bernad, SI (Bernad, S. I.); Hudrea, IC (Hudrea, I. C.); Susan-Resiga, RF (Susan-Resiga, R. F.)
Edited by: Simos T; Tsitouras C
Source: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2016 (ICNAAM-2016) **Book Series:** AIP Conference Proceedings **Volume:** 1863 **Article Number:** 030013 **DOI:** 10.1063/1.4992166 **Published:** 2017
Accession Number: WOS:000410159800019
Conference Title: International Conference on Numerical Analysis and Applied Mathematics (ICNAAM)
Conference Date: SEP 19-25, 2016
Conference Location: Rhodes, GREECE
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Bernad, Sandor I	V-7953-2018	0000-0002-0617-5376

ISSN: 0094-243X
ISBN: 978-0-7354-1538-6

Record 33 of 67

Title: A variational model for swirling flow states with stagnant region
Author(s): Susan-Resiga, RF (Susan-Resiga, R. F.); Muntean, S (Muntean, S.); Stuparu, A (Stuparu, A.); Bosioc, AI (Bosioc, A. I.); Tanasa, C (Tanasa, C.); Ighisan, C (Ighisan, C.)
Source: EUROPEAN JOURNAL OF MECHANICS B-FLUIDS **Volume:** 55 **Pages:** 104-115 **DOI:** 10.1016/j.euromechflu.2015.09.002 **Part:** 1 **Published:** JAN-FEB 2016
Accession Number: WOS:000367762900010
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
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SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Bosioc, Alin	M-1460-2019	

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eISSN: 1873-7390

Record 34 of 67

Title: Surrogate runner model for draft tube losses computation within a wide range of operating points
Author(s): Susan-Resiga, R (Susan-Resiga, R.); Muntean, S (Muntean, S.); Ciocan, T (Ciocan, T.); de Colombel, T (de Colombel, T.); Leroy, P (Leroy, P.)
Edited by: Desy N; Deschenes C; Guibault F; Page M; Turgeon M; Giroux AM
Source: 27TH IAHR SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS (IAHR 2014), PTS 1-7 **Book Series:** IOP Conference Series-Earth and Environmental Science **Volume:** 22 **Article Number:** UNSP 012022 **DOI:** 10.1088/1755-1315/22/1/012022 **Published:** 2014
Accession Number: WOS:000347441900022
Conference Title: 27th IAHR Symposium on Hydraulic Machinery and Systems (IAHR)
Conference Date: SEP 22-26, 2014
Conference Location: Montreal, CANADA
Conference Sponsors: Andritz, SNC, ALSTOM, VOITH, HYDRO QUEBEC, AECOM, Ecole Polytechnique Montreal, Hatch, Ecole Technologie Superieure, Exp, BBA, Univ Laval, Brookfield, Ressources Naturelles Quebec, Tourisme Montreal
Author Identifiers:

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Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510

ISSN: 1755-1307

Record 35 of 67

Title: Numerical Simulation of the Swirl Generator Discharge Cone at Lower Runner Speeds
Author(s): Bosioc, AI (Bosioc, A. I.); Muntean, S (Muntean, S.); Susan-Resiga, RF (Susan-Resiga, R. F.); Vekas, L (Vekas, L.); Bernad, S (Bernad, S.)
Edited by: Simos T; Psihoyios G; Tsitouras C
Source: 11TH INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2013, PTS 1 AND 2 (ICNAAM 2013) **Book Series:** AIP Conference Proceedings **Volume:** 1558 **Pages:** 204-207 **DOI:** 10.1063/1.4825456 **Published:** 2013
Accession Number: WOS:000331472800049
Conference Title: 11th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM)
Conference Date: SEP 21-27, 2013
Conference Location: GREECE
Conference Sponsors: European Soc Computat Methods Sci, Engn & Technol, Santilli Fdn
Author Identifiers:

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Bernad, Sandor I	V-7953-2018	0000-0002-0617-5376
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Vekas, Ladislau		0000-0002-8553-4049

Record 36 of 67

Title: Methodology to assess integrity with application to collector copper lamellas
Author(s): Marsavina, L (Marsavina, L.); Susan-Resiga, R (Susan-Resiga, R.); Faur, N (Faur, N.); Negru, R (Negru, R.)
Source: THEORETICAL AND APPLIED FRACTURE MECHANICS **Volume:** 53 **Issue:** 2 **Pages:** 136-144 **DOI:** 10.1016/j.tafmec.2010.03.004 **Published:** APR 2010
Accession Number: WOS:000278673300005
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Negru, Radu-Marcel	C-5593-2012	

ISSN: 0167-8442

Record 37 of 67

Title: A swirl generator case study for OpenFOAM
Author(s): Petit, O (Petit, O.); Bosioc, AI (Bosioc, A. I.); Nilsson, H (Nilsson, H.); Muntean, S (Muntean, S.); Susan-Resiga, RF (Susan-Resiga, R. F.)
Edited by: SusanResiga R; Muntean S; Bernad S
Source: 25TH IAHR SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS **Book Series:** IOP Conference Series-Earth and Environmental Science **Volume:** 12 **Article Number:** UNSP 012056 **DOI:** 10.1088/1755-1315/12/1/012056 **Published:** 2010
Accession Number: WOS:000325657000056
Conference Title: 25th IAHR Symposium on Hydraulic Machinery and Systems
Conference Date: SEP 20-24, 2010
Conference Location: Politehnica Univ Timisoara, Timisoara, ROMANIA
Conference Sponsors: Int Assoc Hydro Environm Engr & Res, Romanian Acad, Timisoara Branch, Natl Author Sci Res, Hidroelectrica S A, UCM Resita, Machine Buiding Factory, Hydro Engr S A, Voith Hydro Holding GmbH, Andritz Hydro GmbH, Alstom Hydro, Adv Design Technol Ltd
Conference Host: Politehnica Univ Timisoara
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
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Nilsson, Hakan	AAM-7818-2020	
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 1755-1307

Record 38 of 67

Title: Flow investigations in Achard turbine
Author(s): Bernad, S (Bernad, Sandor); Georgescu, A (Georgescu, Andrei); Georgescu, SC (Georgescu, Sanda-Carmen); Susan-Resiga, R (Susan-Resiga, Romeo); Anton, I (Anton, Ioan)
Source: PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE **Volume:** 9 **Issue:** 2 **Pages:** 129-140 **Published:** MAY-AUG 2008
Accession Number: WOS:000259537100008
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Bernad, Sandor	C-3546-2012	
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
GEORGESCU, Sanda-Carmen	D-4211-2012	0000-0002-1694-2946
Georgescu, Andrei-Mugur	G-9516-2013	0000-0002-3392-3173
Bernad, Sandor I	V-7953-2018	0000-0002-0617-5376

ISSN: 1454-9069

Record 39 of 67

Title: Mixing interface algorithm for 3D turbulent flow analysis of the GAMM Francis turbine
Author(s): Muntean, S (Muntean, S); Susan-Resiga, RF (Susan-Resiga, RF); Anton, I (Anton, I)
Edited by: Vad J; Lajos T; Schilling R
Source: MODELLING FLUID FLOW: THE STATE OF THE ART **Pages:** 359-372 **Published:** 2004
Accession Number: WOS:000223863700025
Conference Title: International Conference on Modelling Fluid Flow (CMMF 03)
Conference Date: SEP 03-06, 2003
Conference Location: Budapest Univ, Budapest, HUNGARY
Conference Host: Budapest Univ
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510

ISBN: 3-540-22031-3

Record 40 of 67

Title: A Novel Passive Method to Control the Swirling Flow with Vortex Rope from the Conical Diffuser of Hydraulic Turbines with Fixed Blades

Author(s): Tanasa, C (Tanasa, Constantin); Bosioc, A (Bosioc, Alin); Muntean, S (Muntean, Sebastian); Susan-Resiga, R (Susan-Resiga, Romeo)
Source: APPLIED SCIENCES-BASEL **Volume:** 9 **Issue:** 22 **Article Number:** 4910 **DOI:** 10.3390/app9224910 **Published:** NOV 2 2019
Accession Number: WOS:000502570800187
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510

eISSN: 2076-3417

Record 41 of 67

Title: Experimental Investigation of the Unsteady Pressure Field in Decelerated Swirling Flow with 74 degrees Sharp Heel Elbow
Author(s): Mos, DC (Mos, D. C.); Muntean, S (Muntean, S.); Bosioc, AI (Bosioc, A. I.); Tanasa, C (Tanasa, C.); Susan-Resiga, R (Susan-Resiga, R.)
Book Group Author(s): IOP
Source: HYPERBOLE SYMPOSIUM 2017 (HYDROPOWER PLANTS PERFORMANCE AND FLEXIBLE OPERATION TOWARDS LEAN INTEGRATION OF NEW RENEWABLE ENERGIES) **Book Series:** Journal of Physics Conference Series **Volume:** 813 **Article Number:** UNSP 012046 **DOI:** 10.1088/1742-6596/813/1/012046 **Published:** 2017
Accession Number: WOS:000440372200046
Conference Title: Symposium on Hydropower plants Performance and flexible Operation towards Lean integration of new renewable Energies (HYPERBOLE)
Conference Date: FEB 02-03, 2017
Conference Location: Porto, PORTUGAL
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
Bosioc, Alin	M-1460-2019	

ISSN: 1742-6588

eISSN: 1742-6596

Record 42 of 67

Title: The Complex Dynamics of the Precessing Vortex Rope in a Straight Diffuser
Author(s): Stuparu, A (Stuparu, Adrian); Susan-Resiga, R (Susan-Resiga, Romeo)
Book Group Author(s): IOP
Source: 28TH IAHR SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS (IAHR2016), PTS 1-12 **Book Series:** IOP Conference Series-Earth and Environmental Science **Volume:** 49 **Article Number:** 082013 **DOI:** 10.1088/1755-1315/49/8/082013 **Published:** 2016
Accession Number: WOS:000400156200118
Conference Title: 28th IAHR Symposium on Hydraulic Machinery and Systems (IAHR)
Conference Date: JUL 04-08, 2016
Conference Location: Grenoble, FRANCE
Conference Sponsors: IAHR, Grenoble Inst Technol, French Hydraul Soc, Andritz Hydro, CERG, HydroLike, VOITH, GE, eDF, CNR, Harbin Elect Machinery Co Ltd, NUMECA Int, Power Vis Engn, YLEC Consultants
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Stuparu, Adrian	C-4419-2015	0000-0002-2914-9322

ISSN: 1755-1307

Record 43 of 67

Title: A Mathematical Model for the Swirling Flow Ingested by the Draft Tube of Francis Turbines
Author(s): Susan-Resiga, R (Susan-Resiga, Romeo); Ighisan, C (Ighisan, Cosmin); Muntean, S (Muntean, Sebastian)
Source: WASSERWIRTSCHAFT **Volume:** 105 **Issue:** 1 **Special Issue:** SI **Pages:** 23-27 **Published:** 2015
Accession Number: WOS:000354657300006
Conference Title: 18th International Seminar on Hydropower Plants
Conference Date: NOV 26-28, 2014
Conference Location: Vienna, AUSTRIA
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510

ISSN: 0043-0978

Record 44 of 67

Title: Numerical Assessment of a Novel Concept for Mitigating the Unsteady Pressure Pulsations Associated to Decelerating Swirling Flow with Precessing Helical Vortex
Author(s): Tanasa, C (Tanasa, Constantin); Susan-Resiga, R (Susan-Resiga, Romeo); Muntean, S (Muntean, Sebastian); Stuparu, A (Stuparu, Adrian); Bosioc, A (Bosioc, Alin); Ciocan, T (Ciocan, Tiberiu)
Edited by: Simos TE; Kalogiratou Z; Monovasilis T
Source: INTERNATIONAL CONFERENCE OF COMPUTATIONAL METHODS IN SCIENCES AND ENGINEERING 2015 (ICCMSE 2015) **Book Series:** AIP Conference Proceedings **Volume:** 1702 **Article Number:** 080003 **DOI:** 10.1063/1.4938798 **Published:** 2015
Accession Number: WOS:000371804300029
Conference Title: International Conference of Computational Methods in Sciences and Engineering (ICCMSE)
Conference Date: MAR 20-23, 2015

Conference Location: Athens, GREECE

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Stuparu, Adrian	C-4419-2015	0000-0002-2914-9322
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Bosioc, Alin	M-1460-2019	

ISSN: 0094-243X

ISBN: 978-0-7354-1349-8

Record 45 of 67

Title: Experimental investigations of the swirling flow in the conical diffuser using flow-feedback control technique with additional energy source

Author(s): Tanasa, C (Tanasa, C.); Bosioc, AI (Bosioc, A. I.); Susan-Resiga, RF (Susan-Resiga, R. F.); Muntean, S (Muntean, S.)

Edited by: Wu Y; Wang Z; Liu S; Yuan S; Luo X; Wang F

Source: 26TH IAHR SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS, PTS 1-7 Book Series: IOP Conference Series-Earth and Environmental Science Volume: 15 Article Number: 062043 DOI: 10.1088/1755-1315/15/6/062043 Published: 2013

Accession Number: WOS:000324782300210

Conference Title: 26th IAHR Symposium on Hydraulic Machinery and Systems

Conference Date: AUG 19-23, 2012

Conference Location: Tsinghua Univ, Beijing, PEOPLES R CHINA

Conference Sponsors: Int Assoc Hydro Environm Engr & Res, State Key Lab Hydro Sci & Hydraul Engrn, Jiangsu Univ, Xian Univ Technol, China Agr Univ, Harbin Elect Machinery Co Ltd, Natl Engr Res Ctr Hydropower Equipment, Dongfang Elect Machinery Co Ltd, Toshiba Hydro Power Co Ltd, Zhejiang Fuchunjiang Hydropower, Voith Hydro, Alstom Hydro

Conference Host: Tsinghua Univ

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
Bosioc, Alin	M-1460-2019	

ISSN: 1755-1307

Record 46 of 67

Title: EFFECTS OF DIFFERENT TYPES OF INPUT WAVEFORMS IN PATIENT-SPECIFIC RIGHT CORONARY ATHEROSCLEROSIS HEMODYNAMICS ANALYSIS

Author(s): Bernad, SI (Bernad, S. I.); Bernad, ES (Bernad, E. S.); Barbat, T (Barbat, T.); Albulescu, V (Albulescu, V.); Susan-Resiga, R (Susan-Resiga, R.)

Edited by: Brebbia CA

Source: MODELLING IN MEDICINE AND BIOLOGY Pages: 55-72 Published: 2011

Accession Number: WOS:000293178700005

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Bernad, Sandor I	V-7953-2018	0000-0002-0617-5376

ISBN: 978-1-84564-572-4

Record 47 of 67

Title: Optimization of the hydrofoil cascade and validation with quasi-analytical solution for hydraulic machinery

Author(s): Frunza, T (Frunza, T.); Susan-Resiga, R (Susan-Resiga, R.); Muntean, S (Muntean, S.); Bernad, S (Bernad, S.)

Edited by: SusanResiga R; Muntean S; Bernad S

Source: 25TH IAHR SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS Book Series: IOP Conference Series-Earth and Environmental Science Volume: 12 Article Number: UNSP 012075 DOI: 10.1088/1755-1315/12/1/012075 Published: 2010

Accession Number: WOS:000325657000075

Conference Title: 25th IAHR Symposium on Hydraulic Machinery and Systems

Conference Date: SEP 20-24, 2010

Conference Location: Politehnica Univ Timisoara, Timisoara, ROMANIA

Conference Sponsors: Int Assoc Hydro Environm Engr & Res, Romanian Acad, Timisoara Branch, Natl Author Sci Res, Hidroelectrica S A, UCM Resita, Machine Buiding Factory, Hydro Engr S A, Voith Hydro Holding GmbH, Andritz Hydro GmbH, Alstom Hydro, Adv Design Technol Ltd

Conference Host: Politehnica Univ Timisoara

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 1755-1307

Record 48 of 67

Title: Investigations on Fracture of Collector Copper Lamellas

Author(s): Marsavina, L (Marsavina, Liviu); Faur, N (Faur, Nicolae); Susan-Resiga, R (Susan-Resiga, Romeo); Negru, R (Negru, Radu)

Edited by: Pantelakis S; Rodopoulos C

Source: ENGINEERING AGAINST FRACTURE Pages: 261-273 DOI: 10.1007/978-1-4020-9402-6_21 Published: 2009

Accession Number: WOS:000266147400021

Conference Title: 1st Conference on Engineering Against Fracture
Conference Date: MAY 28-30, 2008
Conference Location: Patras, GREECE
Conference Sponsors: Univ Patras Res Comm, Tech Chamber Greece, Off Naval Res Global, Minist Educ & Religious Affairs Greece, Set Point Technologies
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Negru, Radu-Marcel	C-5593-2012	

ISBN: 978-1-4020-9401-9

Record 49 of 67
Title: Vortex flow modelling inside the poppet valve chamber
Author(s): Bernad, S (Bernad, S); Susan-Resiga, R (Susan-Resiga, R); Anton, I (Anton, I); Ancusa, V (Ancusa, V)
Edited by: Burrows CR; Edge KA
Source: POWER TRANSMISSION AND MOTION CONTROL PTMC 2001 **Pages:** 161-176 **Published:** 2001
Accession Number: WOS:000173073000012
Conference Title: International Bath Workshop on Power Transmission and Motion Control (PTMC 2001)
Conference Date: SEP 12-14, 2001
Conference Location: UNIV BATH, BATH, ENGLAND
Conference Sponsors: Ctr Power Transmiss & Mot Control, Fluid Power Ctr Europe
Conference Host: UNIV BATH
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Bernad, Sandor	C-3546-2012	

ISBN: 1-86058-326-1

Record 50 of 67
Title: On the quasi steady-state approximation in non-isothermal kinetics
Author(s): Popescu, C (Popescu, C); Segal, E (Segal, E); Susan-Resiga, RF (Susan-Resiga, RF)
Source: REVUE ROUMAINE DE CHIMIE **Volume:** 44 **Issue:** 9 **Pages:** 857-861 **Published:** SEP 1999
Accession Number: WOS:000088059600008
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Popescu, Crisan	C-1207-2013	0000-0002-4990-5690

ISSN: 0035-3930

Record 51 of 67**Title:** LATTICE BOLTZMANN APPROACH TO VISCOUS FLOWS BETWEEN PARALLEL PLATES**Author(s):** SZILAGYI, B (SZILAGYI, B); SUSANRESIGA, R (SUSANRESIGA, R); SOFONEA, V (SOFONEA, V)**Source:** INTERNATIONAL JOURNAL OF MODERN PHYSICS C-PHYSICS AND COMPUTERS **Volume:** 6 **Issue:** 3 **Pages:** 345-358 **DOI:** 10.1142/S0129183195000253 **Published:** JUN 1995**Accession Number:** WOS:A1995RK00800003**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Sofonea, Victor	C-9927-2009	0000-0003-1514-0359
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 0129-1831**Record 52 of 67****Title:** Numerical Analysis of Temperature and Torque in A Magneto-Rheological Clutch**Author(s):** Bosioc, AI (Bosioc, A. I.); Stuparu, A (Stuparu, A.); Susan-Resiga, R (Susan-Resiga, R.)**Edited by:** Simos T; Tsitouras C**Source:** PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2016 (ICNAAM-2016) **Book Series:** AIP Conference Proceedings **Volume:** 1863 **Article Number:** 030015 **DOI:** 10.1063/1.4992168 **Published:** 2017**Accession Number:** WOS:000410159800021**Conference Title:** International Conference on Numerical Analysis and Applied Mathematics (ICNAAM)**Conference Date:** SEP 19-25, 2016**Conference Location:** Rhodes, GREECE**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Stuparu, Adrian	C-4419-2015	0000-0002-2914-9322
Bosioc, Alin	M-1460-2019	

ISSN: 0094-243X**ISBN:** 978-0-7354-1538-6**Record 53 of 67****Title:** Efficient Proper Orthogonal Decomposition for Parameter Dependent Problems with Applications to Hydraulic Turbines**Author(s):** Bistran, DA (Bistran, Diana Alina); Susan-Resiga, RF (Susan-Resiga, Romeo F.)**Edited by:** Simos T; Tsitouras C**Source:** PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2015 (ICNAAM-2015) **Book Series:** AIP Conference Proceedings **Volume:** 1738 **Article Number:** 410002 **DOI:** 10.1063/1.4952203 **Published:** 2016**Accession Number:** WOS:000380803300425**Conference Title:** International Conference on Numerical Analysis and Applied Mathematics (ICNAAM)**Conference Date:** SEP 23-29, 2015**Conference Location:** Rhodes, GREECE**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Bistran, Diana Alina	B-6792-2012	0000-0001-8957-5879

ISSN: 0094-243X**ISBN:** 978-0-7354-1392-4**Record 54 of 67****Title:** Swirling Flow Computation at the Trailing Edge of Radial-Axial Hydraulic Turbines**Author(s):** Susan-Resiga, R (Susan-Resiga, Romeo); Muntean, S (Muntean, Sebastian); Popescu, C (Popescu, Constantin)**Book Group Author(s):** IOP**Source:** 28TH IAHR SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS (IAHR2016), PTS 1-12 **Book Series:** IOP Conference Series-Earth and Environmental Science **Volume:** 49 **Article Number:** 082012 **DOI:** 10.1088/1755-1315/49/8/082012 **Published:** 2016**Accession Number:** WOS:000400156200117**Conference Title:** 28th IAHR Symposium on Hydraulic Machinery and Systems (IAHR)**Conference Date:** JUL 04-08, 2016**Conference Location:** Grenoble, FRANCE**Conference Sponsors:** IAHR, Grenoble Inst Technol, French Hydraul Soc, Andritz Hydro, CERG, HydroLike, VOITH, GE, eDF, CNR, Harbin Elect Machinery Co Ltd, NUMECA Int, Power Vis Engn, YLEC Consultants**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510

ISSN: 1755-1307**Record 55 of 67****Title:** The Influence of Stenosis Degrees and Graft Suture Position on Local Hemodynamics of Coronary Bypass

Author(s): Totorean, AF (Totorean, A. F.); Bernad, SI (Bernad, S. I.); Susan-Resiga, RF (Susan-Resiga, R. F.)
Edited by: Simos T; Tsitouras C
Source: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2015 (ICNAAM-2015) **Book Series:** AIP Conference Proceedings **Volume:** 1738 **Article Number:** 030029 **DOI:** 10.1063/1.4951785 **Published:** 2016
Accession Number: WOS:000380803300040
Conference Title: International Conference on Numerical Analysis and Applied Mathematics (ICNAAM)
Conference Date: SEP 23-29, 2015
Conference Location: Rhodes, GREECE
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Bernad, Sandor I	V-7953-2018	0000-0002-0617-5376
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 0094-243X
ISBN: 978-0-7354-1392-4

Record 56 of 67

Title: Numerical Analysis of the Temperature Field in A Magneto-Rheological Brake
Author(s): Bosioc, AI (Bosioc, A. I.); Muntean, S (Muntean, S.); Susan-Resiga, RF (Susan-Resiga, R. F.); Borbath, I (Borbath, I.); Vekas, L (Vekas, L.)
Edited by: Simos TE; Kalogiratou Z; Monovasilis T
Source: INTERNATIONAL CONFERENCE OF COMPUTATIONAL METHODS IN SCIENCES AND ENGINEERING 2015 (ICCMSE 2015) **Book Series:** AIP Conference Proceedings **Volume:** 1702 **Article Number:** 080002 **DOI:** 10.1063/1.4938797 **Published:** 2015
Accession Number: WOS:000371804300028
Conference Title: International Conference of Computational Methods in Sciences and Engineering (ICCMSE)
Conference Date: MAR 20-23, 2015
Conference Location: Athens, GREECE
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
Vekas, Ladislau N	C-4566-2011	
Bosioc, Alin	M-1460-2019	

ISSN: 0094-243X
ISBN: 978-0-7354-1349-8

Record 57 of 67

Title: The Influence of Number of Turns to Helicity Variations at the Outlet Sections in Helical Geometries with Applications for By-pass Graft
Author(s): Totorean, AF (Totorean, A. F.); Bernad, SI (Bernad, S. I.); Bosioc, A (Bosioc, A.); Hudrea, IC (Hudrea, I. C.); Bernad, ES (Bernad, E. S.); Susan-Resiga, RF (Susan-Resiga, R. F.)
Edited by: Simos TE; Kalogiratou Z; Monovasilis T
Source: INTERNATIONAL CONFERENCE OF COMPUTATIONAL METHODS IN SCIENCES AND ENGINEERING 2015 (ICCMSE 2015) **Book Series:** AIP Conference Proceedings **Volume:** 1702 **Article Number:** 080007 **DOI:** 10.1063/1.4938802 **Published:** 2015
Accession Number: WOS:000371804300033
Conference Title: International Conference of Computational Methods in Sciences and Engineering (ICCMSE)
Conference Date: MAR 20-23, 2015
Conference Location: Athens, GREECE
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Bosioc, Alin	M-1460-2019	
Bernad, Sandor I	V-7953-2018	0000-0002-0617-5376
Bernad, Elena		0000-0003-1084-2714

ISSN: 0094-243X
ISBN: 978-0-7354-1349-8

Record 58 of 67

Title: A Helical Pipe Investigation from a Cardiovascular Perspective
Author(s): Totorean, AF (Totorean, A. F.); Bernad, SI (Bernad, S. I.); Susan-Resiga, RF (Susan-Resiga, R. F.)
Edited by: Simos TE; Tsitouras C
Source: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2014 (ICNAAM-2014) **Book Series:** AIP Conference Proceedings **Volume:** 1648 **Article Number:** 030033 **DOI:** 10.1063/1.4912350 **Published:** 2015
Accession Number: WOS:000355339700045
Conference Title: International Conference on Numerical Analysis and Applied Mathematics (ICNAAM)
Conference Date: SEP 22-28, 2014
Conference Location: Rhodes, GREECE
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Bernad, Sandor I	V-7953-2018	0000-0002-0617-5376
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 0094-243X
ISBN: 978-0-7354-1287-3

Record 59 of 67

Title: Particle motion in coronary serial stenoses
Author(s): Bernad, SI (Bernad, S. I.); Totorean, A (Totorean, A.); Bernad, ES (Bernad, E. S.); Susan-Resiga, R (Susan-Resiga, R.)
Edited by: Kiss R; Brebbia CA
Source: MODELLING IN MEDICINE AND BIOLOGY X **Book Series:** WIT Transactions on Biomedicine and Health **Volume:** 17 **Pages:** 169-180 **DOI:** 10.2495/BIO130151 **Published:** 2013
Accession Number: WOS:000455795500015
Conference Title: 10th International Conference on Modelling in Medicine and Biology
Conference Date: APR 24-26, 2013
Conference Location: Budapest, HUNGARY
Conference Sponsors: Wessex Inst Technol, Budapest Univ Technol & Econ, WIT Transact Biomedicine & Hlth, Int Journal Design & Nat & Ecodynam, Budapest Univ Technol & Econ, Biomechan Res Ctr
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Bernad, Sandor I	V-7953-2018	0000-0002-0617-5376

ISSN: 1743-3525
ISBN: 978-1-84564-706-3

Record 60 of 67

Title: Proper Orthogonal Decomposition Method in Swirling Flows Applications
Author(s): Dragomirescu, FI (Dragomirescu, Florica Ioana); Susan-Resiga, R (Susan-Resiga, Romeo); Muntean, S (Muntean, Sebastian)
Edited by: Simos T; Psihoyios G; Tsitouras C
Source: 11TH INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2013, PTS 1 AND 2 (ICNAAM 2013) **Book Series:** AIP Conference Proceedings **Volume:** 1558 **Pages:** 1349-1352 **DOI:** 10.1063/1.4825762 **Published:** 2013
Accession Number: WOS:000331472800319
Conference Title: 11th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM)
Conference Date: SEP 21-27, 2013
Conference Location: GREECE
Conference Sponsors: European Soc Computat Methods Sci, Engn & Technol, Santilli Fdn
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510

ISSN: 0094-243X
ISBN: 978-0-7354-1185-2

Record 61 of 67

Title: Particle Hemodynamics Analysis after Coronary Angioplasty
Author(s): Bernad, SI (Bernad, S. I.); Totorean, AF (Totorean, A. F.); Vinatu, VF (Vinatu, V. F.); Susan-Resiga, RF (Susan-Resiga, R. F.)
Book Group Author(s): IAENG
Source: WORLD CONGRESS ON ENGINEERING, WCE 2010, VOL I **Book Series:** Lecture Notes in Engineering and Computer Science **Pages:** 583-588 **Published:** 2010
Accession Number: WOS:000394059800105
Conference Title: World Congress on Engineering (WCE 2010)
Conference Date: JUN 30-JUL 02, 2010
Conference Location: Imperial Coll London, London, UNITED KINGDOM
Conference Sponsors: Int Assoc Engineers, IAENG, Soc Artificial Intelligence, IAENG, Soc of Bioinformat, IAENG, Soc Comp Sci, IAENG, Soc Data Min, IAENG, Soc Elect Engn, IAENG, Soc Imag Engn, IAENG, Soc Ind Engn, IAENG, Soc Informat Syst Engn, IAENG, Soc Internet Comp & Web Serv, IAENG, Soc Mech Engn, IAENG, Soc Operat Res, IAENG, Soc Sci Comp, IAENG, Soc Software Engn, IAENG, Soc Wireless Networks
Conference Host: Imperial Coll London
ISSN: 2078-0958
ISBN: 978-988-17012-9-9

Record 62 of 67

Title: Numerical investigation of the cavitational behaviour into a storage pump at off design operating points
Author(s): Stuparu, A (Stuparu, A.); Susan-Resiga, R (Susan-Resiga, R.); Anton, LE (Anton, L. E.); Muntean, S (Muntean, S.)
Edited by: SusanResiga R; Muntean S; Bernad S
Source: 25TH IAHR SYMPOSIUM ON HYDRAULIC MACHINERY AND SYSTEMS **Book Series:** IOP Conference Series-Earth and Environmental Science **Volume:** 12 **Article Number:** UNSP 012068 **DOI:** 10.1088/1755-1315/12/1/012068 **Published:** 2010
Accession Number: WOS:000325657000068
Conference Title: 25th IAHR Symposium on Hydraulic Machinery and Systems
Conference Date: SEP 20-24, 2010
Conference Location: Politehnica Univ Timisoara, Timisoara, ROMANIA
Conference Sponsors: Int Assoc Hydro Environm Engn & Res, Romanian Acad, Timisoara Branch, Natl Author Sci Res, Hidroelectrica S A, UCM Resita, Machine Buiding Factory, Hydro Engn S A, Voith Hydro Holding GmbH, Andritz Hydro GmbH, Alstom Hydro, Adv Design Technol Ltd
Conference Host: Politehnica Univ Timisoara
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Muntean, Sebastian	A-6333-2014	0000-0001-8993-8510
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Stuparu, Adrian	C-4419-2015	0000-0002-2914-9322

ISSN: 1755-1307

Record 63 of 67

Title: Computational hemodynamics analysis in realistic 3D geometries of the human coronary atherosclerosis
Author(s): Bernad, SI (Bernad, S. I.); Barbat, T (Barbat, T.); Bernad, E (Bernad, E.); Susan-Resiga, R (Susan-Resiga, R.)
Edited by: Brebbia CA
Source: MODELLING IN MEDICINE AND BIOLOGY VIII **Book Series:** WIT Transactions on Biomedicine and Health **Volume:** 13 **Pages:** 93-+ **DOI:** 10.2495/BIO090091 **Published:** 2009
Accession Number: WOS:000268884000009
Conference Title: 8th International Conference on Modelling in Medicine and Biology
Conference Date: MAY 26-28, 2009
Conference Location: Crete, GREECE
Conference Sponsors: WIT Transact Biomed & Hlth, Wessex Inst Technol
Author Identifiers:

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SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Bernad, Sandor	C-3546-2012	
Bernad, Elena		0000-0003-1084-2714

ISSN: 1743-3525

ISBN: 978-1-84564-183-2

Record 64 of 67

Title: COMPUTATIONAL HEMODYNAMICS IN THREE-DIMENSIONAL STENOSED RIGHT CORONARY ARTERY
Author(s): Bernad, SI (Bernad, Sandor I.); Barbat, T (Barbat, Tiberiu); Bernad, ES (Bernad, Elena S.); Susan-Resiga, R (Susan-Resiga, Romeo)
Edited by: Mistorakis NE; Croitoru A; Balas VE; Son E; Mladenov V
Source: MCBC'09: PROCEEDINGS OF THE 10TH WSEAS INTERNATIONAL CONFERENCE ON MATHEMATICS AND COMPUTERS IN BIOLOGY AND CHEMISTRY **Book Series:** Recent Advances in Biology and Biomedicine **Pages:** 81-+ **Published:** 2009
Accession Number: WOS:000265406500012
Conference Title: 10th WSEAS International Conference on Mathematics and Computers in Biology and Chemistry
Conference Date: MAR 23-25, 2009
Conference Location: Prague, CZECH REPUBLIC
Conference Sponsors: WSEAS
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
Bernard, Simon		0000-0003-0200-4294

ISSN: 1790-5125

ISBN: 978-960-474-062-8

Record 65 of 67

Title: Cardio vascular surgery - Simulation based medical intervention
Author(s): Bernad, SI (Bernad, Sandor I.); Barbat, T (Barbat, Tiberiu); Bernad, ES (Bernad, Elena S.); Susan-Resiga, R (Susan-Resiga, Romeo)
Edited by: Vladareanu L; Chiroiu V; Bratu P; Magheti I
Source: MATHEMATICS AND COMPUTERS IN BIOLOGY AND CHEMISTRY **Book Series:** Recent Advances in Biology and Biomedicine **Pages:** 100-+ **Published:** 2008
Accession Number: WOS:000258094800022
Conference Title: 9th WSEAS International Conference on Mathematics and Computers in Biology and Chemistry
Conference Date: JUN 24-26, 2008
Conference Location: Bucharest, ROMANIA
Conference Sponsors: Acad Romana, Natl Univ Res Council, Tech Univ Cluj Napoca, Execut Agcy Higher Educ & Res Funding
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISSN: 1790-5125

ISBN: 978-960-6766-75-6

Record 66 of 67

Title: Domain-decomposition method for time-harmonic aeroacoustic problems
Author(s): Susan-Resiga, RF (Susan-Resiga, RF); Atassi, HM (Atassi, HM)
Source: AIAA JOURNAL **Volume:** 39 **Issue:** 5 **Pages:** 802-809 **DOI:** 10.2514/2.1413 **Published:** MAY 2001
Accession Number: WOS:000168611900006
Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
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SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729
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ISSN: 0001-1452

Record 67 of 67

Title: ATTENUATORS VOLUME INFLUENCE ON HIGH-PRESSURES PULSATIONS IN A JET CUTTING UNIT

Author(s): SUSANRESIGA, R (SUSANRESIGA, R)

Edited by: Lichtarowicz A

Source: JET CUTTING TECHNOLOGY **Book Series:** FLUID MECHANICS AND ITS APPLICATIONS **Volume:** 13 **Pages:** 37-45 **Published:** 1992

Accession Number: WOS:A1992BX45R00003

Conference Title: 11TH INTERNATIONAL CONF ON JET CUTTING TECHNOLOGY

Conference Date: SEP 08-10, 1992

Conference Location: ST ANDREWS, SCOTLAND

Conference Sponsors: BHR GRP, INT SOC WATER JET TECHNOL, INST MECH ENGINEERS

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
SUSAN-RESIGA, Romeo Florin	C-3417-2011	0000-0002-4642-8729

ISBN: 0-7923-1979-6

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