

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Surname(s) / First name(s)	Sanjin Braut
Address(es)	Lučinići 21, 51216 Viškovo, Croatia
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Nationality(-ies)	Croatian
Date of birth	January 4, 1973.
Identification number from Records of Scientific Workers	238653

WORK EXPERIENCE

• Dates (from – to)	1998.-2006
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	Assistant
Main activities and responsibilities	scientific research, lecturing, professional work in Dynamics, Vibration of machines, Rotor-Dynamics
• Dates (from – to)	2007.-
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	Assistant Professor
Main activities and responsibilities	scientific research, lecturing, professional work in Dynamics, Vibration of machines, Rotor-Dynamics and Mechatronics

EDUCATION

Date	1987.-1991.
Place of education	Rijeka
Name and type of organisation providing education	Tehnički školski centar – Technical high school
Title or qualification awarded	Mechanical engineering technician
Date	1991.-1996.
Place of education	Rijeka
Name and type of organisation providing education	Faculty of Engineering, University of Rijeka
Title or qualification awarded	Bachelor of mechanical engineering
Date	1998.-2002.
Place of education	Rijeka
Name and type of organisation providing education	Faculty of Engineering, University of Rijeka
Title or qualification awarded	Master of Engineering Science

Date	2002.-2006.
Place of education	Rijeka
Name and type of organisation providing education	Faculty of Engineering, University of Rijeka
Title or qualification awarded	PhD in Engineering Science

TRAINING

Year	May / 1999.
Place of training	Brno, Czech Republic
Name and type of organisation providing training	Faculty of Mechanical Engineering, University of Technology, Brno
Principal subjects/Occupational skills covered	Experimental and numerical mechanics

Year	July / 1999.
Place of training	Darmstadt, Germany
Name and type of organisation providing training	Fachgebiet Mechatronik und Maschinenakustik, Department of Mechanical Engineering, Technische Universität Darmstadt
Principal subjects/Occupational skills covered	Rotor dynamics, Mechatronics

Year	September / 2007.
Place of training	Udine, Italy
Name and type of organisation providing training	CISM - International Centre for Mechanical Sciences
Principal subjects/Occupational skills covered	Advanced school: Simulation techniques for applied dynamics

PERSONAL SKILLS AND COMPETENCIES

Mother tongue(s)	Croatian
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Other language(s)

Language	English	German:
Speaking	good	fair
Writing	good	fair
Understanding (listening and reading)	excellent	good

TECHNICAL SKILLS AND COMPETENCIES

- analyses in the field of rotor dynamics and machine dynamics and vibration in general
- finite element analyses by computer programs: MSC.VisualNastran for Windows, I-Deas,
- vibration measurements with Vibroport 41 system with exciter system Vibroexciter and analysis of measured vibrations on Vibroexpert all made by Schenck,
- balancing of machines,
- vibration measurement using 8 channel system based on National Instruments PCI DAQ card NI 4472 and softwares LabVIEW, Order analysis Toolset and Sound and Vibration Toolkit,
programming: Matlab, Mathematica, LabVIEW

ADDITIONAL INFORMATION

Membership: *Croatian Society of Mechanics*, CroFToMM (Croatian Member Organization of IFToMM)

Researcher in the following projects of The Ministry of Science, Education and Sports in the Republic of Croatia :

2007-, Mechatronic Approach to the Reduction of Machinery Vibration and Noise , Code 069-0691736-1733, principal investigator Asoc.Prof.D.Sc. Roberto Žigulić, University of Rijeka, Faculty of Engineering, MSES

2002 - 2006, Nonlinear Dynamics of Rotating Machinery, Code 069016, principal investigator Prof.D.Sc. Mirko Butković, MSES - Alstom Karlovac,

2003 - 2005, Investigation on destruction sensitivity decrease of large rotating machinery, Colaborative inter-university project, principal investigator Prof.D.Sc. Mirko Butković,

1997 - 2001, Mechanical Safety of Machines, Code 069013, principal investigator Prof.D.Sc. Mirko Butković, MSES - ABB Karlovac.

1999 - 2001, Vibrations and Safety of Machines, Bilateral Croatian/Slovenian scientific project, principal investigator Prof.D.Sc. Mirko Butković, Prof.D.Sc. Miha Boltežar

ANNEXES

Recent relevant publications

Recent relevant publications

1. Braut, Sanjin; Zigulic, Roberto; Skoblar, Ante; Štimac, Goranka; Butkovic, Mirko; Jokic, Marko. Dynamic Analysis of the Rotor-Stator Contact due to Blade Loss // Proceedings of Twelfth World Congress in Mechanism and Machine Science / Merlet, Jean-Pierre ; Dahan, Marc, editor(s). Besancon : Comité Français pour la Promotion de la Science des Mécanismes et des Machines, 2007. pp. 1-6.
2. Hrvoje RADELJA, Roberto ŽIGULIĆ, Sanjin BRAUT, Numerical Simulation of Vehicle Passage Over Obstacles on the Road, Engineering review. (ISSN 1330-9587) 27 (2007) In press
3. Braut, S., Žigulić, R., Štimac, G., Skoblar, A.: *Full-Spectrum Analysis of the Rotor-Stator Rub Malfunction*, Bulletins for Applied & Computer Mathematics (ISSN 0133-3526), CXI (2007), Nr. 2297, pp. 84-89.
4. Skoblar, A., Žigulić, R., Braut, S., Štimac, G.: *The Accuracy of Rules for Prediction of Local Vibrations in Steel Ships*, Bulletins for Applied & Computer Mathematics (ISSN 0133-3526), CXI (2007), Nr. 2298, pp. 90-95.
5. Skoblar, Ante; Štimac, Goranka; Braut, Sanjin; Žigulić, Roberto: *Experimental and Numerical Analysis of the Sound Radiation From a Vibrating Plate*, Proceedings of 6th Youth Symposium on Experimental Solid Mechanics, Alessandro Freddi, editor(s). Vrnjačka Banja: Serbia, May 9-12, 2007, pp. 177-180.
6. Štimac, Goranka; Skoblar, Ante; Braut, Sanjin; Žigulić, Roberto: *The Analysis of Human Exposure to Whole-Body Vibration in the Steering Cabin of the Bulk Cargo Ship Unloader*, Proceedings of 6th Youth Symposium on Experimental Solid Mechanics, Alessandro Freddi, editor(s). Vrnjačka Banja: Serbia, May 9-12, 2007, pp. 303-306.
7. Braut, Sanjin; Zigulic, Roberto; Skoblar, Ante. Analysis of the critical parameters for appearance of the backward whirl in rotor-stator systems. // Bulletins for Applied & Computer Mathematics. CIX (2006) , 2286; pp. 105-110
8. Roberto Žigulić, Sanjin Braut, Ante Skoblar: *Calculation of the unsynchronous response of the Jeffcott rotor*, 11-th Symposium of Mathematics and its Applications, November, 2-5 2006, pp. 301-306
9. Braut, Sanjin; Zigulic, Roberto; Skoblar, Ante; Butkovic, Mirko. Modal testing of rotordynamic test rig for rotor-stator rub investigation // 22nd Danubia-Adria Symposium on Experimental Methods in Solid Mechanics / Gianni Nicoletto, editor(s). Parma : Italian Association for Stress Analysis, 2005. pp. 246-247.
10. Jakac, Dalibor; Braut, Sanjin. Multichannel rotor vibration measurement. // Engineering review (ISSN 1330-9587) 25 (2005); pp. 1-12
11. Zigulic, Roberto; Braut, Sanjin; Skoblar, Ante; Butkovic, Mirko. Comparison of a Different Implicit Time-integration Methods for the Numerical Solving of Contact Problem of the Rotor in Two Dry Friction Bearings // The 11th World Congress in Mechanism and Machine Science, Proceedings / Tian Huang, editor(s). Tianjin, China : China Machine Press, 2004. pp. 2148-2152
12. Braut, Sanjin; Zigulic, Roberto; Skoblar, Ante; Butkovic, Mirko. The influence of torsion on rotor/stator contact during run-up. // Bulletins for Applied & Computer Mathematics. CVII (2004) , 2229; pp. 57-66
13. Zigulic, Roberto; Braut, Sanjin; Skoblar, Ante; Butkovic, Mirko. The influence of some bearing parameters on the behaviour of the rotor in the dry friction bearings. // Bulletins for Applied & Computer Mathematics. CVII (2004) , 2228; pp. 47-56
14. Braut, Sanjin; Zigulic, Roberto; Skoblar, Ante; Butkovic, Mirko. Experimental and numerical estimation of annular seal influence on pump vibrations // Proceedings of the 20th DANUBIA-ADRIA Symposium on Experimental Methods in Solid Mechanics / Thamm, Frigyes ; Borbas, Lajos, editor(s). Gyor, Hungary : Scientific Society of Mechanical Engineering, 2003, pp. 6-7
15. Zigulic, Roberto; Braut, Sanjin; Skoblar, Ante; Butkovic, Mirko. Adaptive time-step implicit methods for solving contact problems in rotordynamics // Proceedings of the 4th International Congress of Croatian Society of Mechanics / Matejicek, Franjo, editor(s). Bizovac : Croatian Society of Mechanics, 2003. pp 593-600
16. Zigulic, Roberto; Braut, Sanjin; Skoblar, Ante; Butkovic, Mirko. Complicated behaviour of the rotor/stator contact in rotating machinery // 7th Conference on Dynamical systems – ; theory and applications, Proceedings / Awrejcewicz, Jan ; Owczarek, Artur ; Mrozowski, Jerzy, editor(s). Lodz : Department of Automatics and Biomechanics, 2003. pp. 255-260
17. Braut, Sanjin; Zigulic, Roberto; Skoblar, Ante; Butkovic, Mirko. Experimental and numerical estimation of disk position influence on rotor natural frequencies // Proceedings of the 19th DANUBIA-ADRIA Symposium on Experimental Methods in Solid Mechanics / Stupnicki, Jacek, editor(s). Polanica Zdroj : Committee for Mechanics of the Polish Academy of Sciences, 2002. pp. 22-23
18. Zigulic, Roberto; Butkovic, Mirko; Braut, Sanjin. Nonlinear dynamics of multy-disc rotor in dry friction bearings, // IFToMM, Sixth International Conference on Rotor Dynamics, Proceedings - Vol. 2 / Hahn, E. J. ; Randall, R. B., editor(s). Sydney : UNSW Printing Services, 2002. pp. 960-967

