

COBISS Co-operative Online Bibliographic system & services COBISS

EDVARD GOVEKAR [08782]**Personal bibliography for the period****1988-2007**

ARTICLES AND OTHER COMPONENT PARTS**1.01 Original Scientific Article**

1. GOVEKAR, Edvard, GRABEC, Igor. Kaotično gibanje omejenega resonančnega sistema = Chaotic oscillations of a constrained resonant system. *Stroj. vestn.*, 1988, letn. 34, no. 7/9, str. 93-98 in E 7-E 12. [COBISS.SI-ID [4057115](#)]
2. GOVEKAR, Edvard, GRABEC, Igor. Chaos in the constrained resonant system = Kaotično gibanje omejenega resonančnega sistema. *Fizika (Zagreb)*, 1989, vol. 21, no. 2, str. 155-165. [COBISS.SI-ID [4056859](#)]
3. LEGAT, Andraž, GOVEKAR, Edvard. Detection of corrosion by analysis of electrochemical noise. *Fractals (Singap.)*, 1994, vol. 2, no 2, str. 241-244. [COBISS.SI-ID [76647](#)]
4. GOVEKAR, Edvard, GRABEC, Igor. Self-organizing neural network application to drill wear classification. *J. eng. ind.*, 1994, vol. 116, no. 233, str. 233-238. [COBISS.SI-ID [1759003](#)]
5. NOVAK, Gabrijela, GORNIK, Mateja, MALEŠIČ, Irena, GOVEKAR, Edvard. Modellieren mit neuronalem Netzwerk zur Eigenschaftsoptimierung von gestrichenen Papieren. *Papier (Darmst.)*, 1995, vol. 49, heft 5, 220-223. [COBISS.SI-ID [1216](#)]
6. GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor. A chaotic cutting process and determining optimal cutting parameter values using neural networks. *Int. j. mach. tools manuf.* [Print ed.], 1996, vol. 36, no. 10, str. 1161-1172. [COBISS.SI-ID [2064923](#)]
7. GOVEKAR, Edvard, MUŽIČ, Peter, GRABEC, Igor. Classification of chip form based on AE analysis. *Ultrasonics*. [Print ed.], 1996, vol. 34, str. 467-469. [COBISS.SI-ID [2315291](#)]
8. GORNIK, Mateja, NOVAK, Gabrijela, GOVEKAR, Edvard. Modelling coated paper properties: application of neural networks. *Int. J. Syst. Sci.*, 1997, vol. 28, no. 9, str. 865-870, graf. prikazi. [COBISS.SI-ID [39872](#)]
9. GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor. Using coarse-grained entropy rate to

detect chatter in cutting. *J. Sound Vib.*, 1998, vol. 214, no. 5, 941-952. [COBISS.SI-ID [2665755](#)]

10. GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor. Time series analysis in metal cutting: chatter versus chatter-free cutting. *Mech. syst. signal process.*, 1998, vol. 12, no. 6, str. 839-854. [COBISS.SI-ID [2923291](#)]

11. GRABEC, Igor, GOVEKAR, Edvard, SUSIČ, Egon, ANTOLOVIČ, Boris. Monitoring manufacturing processes by utilizing empirical modeling. *Ultrasonics*. [Print ed.], 1998, vol. 36, no. 1/5, 263-271. [COBISS.SI-ID [2623003](#)]

12. GRABEC, Igor, GRADIŠEK, Janez, GOVEKAR, Edvard. A new method for chatter detection in turning. *CIRP ann.*, 1999, vol. 48, no. 1, str. 29-32. [COBISS.SI-ID [3237915](#)]

13. MANDELJ, Simon, GRABEC, Igor, GOVEKAR, Edvard. Statistical modelling of stochastic surface profiles. *Manuf. syst. (Aachen)*, 2000, vol. 30, no. 3, str. 281-287. [COBISS.SI-ID [5117211](#)]

14. GOVEKAR, Edvard, GRADIŠEK, Janez, GRABEC, Igor. Analysis of acoustic emission signals and monitoring of machining processes. *Ultrasonics*. [Print ed.], 2000, letn. 38, št. 1/8, str. 598-603. <http://www.sciencedirect.com/science/journal/0041624X>. [COBISS.SI-ID [3799323](#)]

15. MANDELJ, Simon, GRABEC, Igor, GOVEKAR, Edvard. Statistical approach to modeling of spatiotemporal dynamics. *Int. j. bifurc. chaos appl. sci. eng.*, 2001, vol. 11, no. 11, str. 2731-2738. [COBISS.SI-ID [4908827](#)]

16. GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor. Chatter onset in non-regenerative cutting: a numerical study. *J. Sound Vib.*, 2001, vol. 242, no. 5, str. 829-838. <http://dx.doi.org/10.1006/jsvi.2000.3388>. [COBISS.SI-ID [4322843](#)]

17. KLOCKE, Fritz, BAUS, Andreas, GRABEC, Igor, GRADIŠEK, Janez, GOVEKAR, Edvard. Prozessüberwachung mit nichtlinearer Dynamik : eine neue Methode zur Rattererkennung im Schleifprozess = Process control based on nonlinear dynamics theory : a new method for chatter detection in grinding. *WT, Werkstattstech.*, 2001, bd. 91, hf. 5, str. 275-279. <http://www.technikwissen.de/wt/2001/05/09.htm>. [COBISS.SI-ID [4829467](#)]

18. GOVEKAR, Edvard, BAUS, A., GRADIŠEK, Janez, KLOCKE, F., GRABEC, Igor. A new method for chatter detection in grinding. *CIRP ann.*, 2002, letn. 51, št. 1, str. 267-270. [COBISS.SI-ID [5305115](#)]

19. GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor. Qualitative and quantitative analysis of stochastic processes based on measured data. Part II, Applications to experimental data. *J. Sound Vib.*, 2002, vol. 252, no. 3, str. 563-572. <http://dx.doi.org/10.1006/jsvi.2001.4051>. [COBISS.SI-ID [5177115](#)]

20. SIMONOVSKI, Igor, BOLTEŽAR, Miha, GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor, KUHELJ, Anton. Bispectral analysis of the cutting process. *Mech. syst. signal process.*, 2002, letn. 16, št. 6, str. 1093-1104. <http://dx.doi.org/10.1006/mssp.2001.1388>. [COBISS.SI-ID [5138203](#)]

21. GRADIŠEK, Janez, FRIEDRICH, Rudolf, GOVEKAR, Edvard, GRABEC, Igor. Analysis of data from periodically forced stochastic processes. *Phys. lett., Sect. A*. [Print ed.], 2002, vol. 294, no. 3/4, str. 234-238. <http://www.elsevier.nl/gej-ng/10/36/25/128/34/44/abstract.html>, <http://www.sciencedirect.com/science/journal/03759601>. [COBISS.SI-ID [5242651](#)]

22. GRADIŠEK, Janez, BAUS, Andreas, GOVEKAR, Edvard, KLOCKE, Fritz, GRABEC, Igor. Automatic chatter detection in grinding. *Int. j. mach. tools manuf.*. [Print ed.], 2003, letn. 43, št. 14,

str. 1397-1403. <http://www.sciencedirect.com/science/journal/08906955>. [COBISS.SI-ID 6461467]

23. GRADIŠEK, Janez, FRIEDRICH, Rudolf, GOVEKAR, Edvard, GRABEC, Igor. Examples of analysis of stochastic processes based on time series data. *Meccanica*, 2003, letn. 38, str. 33-42. [COBISS.SI-ID 5564187]

24. MANDELJ, Simon, GRABEC, Igor, GOVEKAR, Edvard. Nonparametric statistical modeling of spatiotemporal dynamics based on recorded data. *Int. j. bifurc. chaos appl. sci. eng.*, 2004, letn. 14, št. 6, str. 2011-2025. <http://www.worldscinet.com/ijbc/mkt/archive.shtml>. [COBISS.SI-ID 7942939]

25. GOVEKAR, Edvard, KLEMENČIČ, Jure, KOKALJ, Tadej, JAHRSDÖRFER, B., MUŽIČ, Peter, GRABEC, Igor. Characterisation of a laser droplet formation process by acoustic emission. *Ultrasonics*. [Print ed.], 2004, letn. 42, št. 1, str. 99-103. <http://www.sciencedirect.com/science/journals/0041624X>. [COBISS.SI-ID 7070235]

26. GOVEKAR, Edvard, GRADIŠEK, Janez, KALVERAM, Martin, INSPERGER, Tamas, WEINERT, Klaus, STEPAN, Gabor, GRABEC, Igor. On stability and dynamics of milling at small radial immersion. *CIRP ann.*, 2005, letn. 54, št. 1, str. 357-362. [COBISS.SI-ID 8345627]

27. POTOČNIK, Primož, GOVEKAR, Edvard, GRABEC, Igor, MUŽIČ, Peter. Psychoacoustic approach to machine fault diagnosis. *International journal of acoustics and vibration*, 2005, vol. 10, no. 3, str. 131-136. [COBISS.SI-ID 8555035]

28. GRADIŠEK, Janez, KALVERAM, Martin, INSPERGER, Tamas, WEINERT, Klaus, STEPAN, Gabor, GOVEKAR, Edvard, GRABEC, Igor. On stability prediction for milling. *Int. j. mach. tools manif.*. [Print ed.], 2005, letn. 45, št. 7/8, str. 769-781. <http://dx.doi.org/10.1016/j.ijmachtools.2004.11.015>. [COBISS.SI-ID 8182555]

29. STEPAN, Gabor, SZALAI, Robert, MANN, Brian P., BAYLY, Philip V., INSPERGER, Tamas, GRADIŠEK, Janez, GOVEKAR, Edvard. Nonlinear dynamics of high-speed milling-analyses, numerics and experiments. *J. vib. acoust.*, 2005, letn. 127, št. 2, str. 197-203. [COBISS.SI-ID 8306203]

30. GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor, KALVERAM, Martin, WEINERT, Klaus, INSPERGER, Tamas, STEPAN, Gabor. On stability prediction for low radial immersion milling. *Mach. sci. technol.*, 2005, letn. 9, št. 1, str. 117-130. <http://taylorandfrancis.metapress.com>. [COBISS.SI-ID 7989531]

31. POTOČNIK, Primož, GOVEKAR, Edvard, GRABEC, Igor. Application of psychoacoustic filtering for machine fault detection. *Int. j. mater. prod. technol.*, 2006, letn. 27, št. 3/4, str. 229-237. <http://dx.doi.org/10.1504/IJMPT.2006.011273>. [COBISS.SI-ID 9744923]

32. KOKALJ, Tadej, KLEMENČIČ, Jure, MUŽIČ, Peter, GRABEC, Igor, GOVEKAR, Edvard. Analysis of a laser droplet formation process. *J. manif. sci. eng.*, 2006, letn. 128, št. 1, str. 307-314. <http://dx.doi.org/10.1115/1.2120780>. [COBISS.SI-ID 8981275]

33. KLEMENČIČ, Jure, KOKALJ, Tadej, MUŽIČ, Peter, GRABEC, Igor, GOVEKAR, Edvard. Characterization of laser droplet formation by reflected light. *Opt. lasers eng.*. [Print ed.], 2006, letn. 44, št. 5, str. 398-410. <http://dx.doi.org/10.1016/j.optlaseng.2005.06.001>. [COBISS.SI-ID 9024283]

1.02 Review Article

34. BURNIK, Stojan, GOVEKAR, Edvard, GRABEC, Igor. Empirično modeliranje povezav. *Šport*

(Ljublj.), 1993, let. 26, št. 3, str. 39-42. [COBISS.SI-ID [1845787](#)]

35. BRINKSMEIER, E., AURICH, J.C., GOVEKAR, Edvard, HEINZEL, C., HOFFMEISTER, H.-W., PETERS, Jacques, RENTSCH, R., STEPHENSON, Derek John, UHLMANN, Eckart, WEINERT, Klaus, WITTMANN, M. Advances in modeling and simulation of grinding processes. *CIRP ann.*, 2006, letn. 55, št. 2, str. 667-696. [COBISS.SI-ID [9835547](#)]

1.04 Professional Article

36. GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor. Šest sigma program : o hierarhični strukturi izvajalcev programa, njegovih prednostih in slabostih. *Kakovost*, okt. 2004, št. 3, str. 36-39, ilustr. [COBISS.SI-ID [224954624](#)]

1.06 Published Scientific Conference Contribution (invited lecture)

37. GOVEKAR, Edvard, GRABEC, Igor. Characterization of chaotic vibrations of a turning process. V: KISHI, Teruo (ur.), MORI, Yasuhiko (ur.), ENOKI, Manabu (ur.). *Progress in acoustic emission VII : proceedings of the 12th International Acoustic Emission Symposium, Sapporo, Japan, October 17-20, 1994*. Tokyo: Japanese Society for Non-Destructive Inspection, [1994], str. 613-618. [COBISS.SI-ID [5233179](#)]

38. GRABEC, Igor, GOVEKAR, Edvard, GRADIŠEK, Janez, KLOCKE, Fritz, SAXLER, Wilfred, BAUS, Andreas. Analysis of acoustic emission of manufacturing processes = Analiza akustične emisije obdelovalnih procesov. V: ČUDINA, Mirko (ur.). *Zbornik referatov Prvega kongresa Slovenskega društva za akustiko z mednarodno udeležbo in razstavo, Portorož, Slovenija, 7. - 8. oktober*. Ljubljana: Slovensko društvo za akustiko, 1998, str. 1-18. [COBISS.SI-ID [2756123](#)]

39. GRABEC, Igor, GOVEKAR, Edvard, KOSEL, Tadej, SUSIČ, Egon, SACHSE, Wolfgang. Statistical modeling of AE phenomena. V: KISHI, Teruo (ur.), HIGO, Y. (ur.), OHTSU, Masayasu (ur.), YUYAMA, Shigenori (ur.). *Progress in acoustic emission X : proceedings of the 15th International Acoustic Emission Symposium, Tokyo, Japan, September 11 - 14, 2000*. [Tokyo]: The Japanese Society for Non-Destructive Inspection, [2000], str. 91-98. [COBISS.SI-ID [3880475](#)]

1.08 Published Scientific Conference Contribution

40. GRABEC, Igor, SACHSE, Wolfgang, GOVEKAR, Edvard. Solving AE problems by a neural network. V: SACHSE, Wolfgang (ur.), ROGET, James (ur.), YAMAGUCHI, Kusuo (ur.). *Acoustic emission: current practice and future directions*, (ASTM STP, 1077). Philadelphia, PA: American Society for Testing and Materials, 1991, str. 165-182. [COBISS.SI-ID [5233691](#)]

41. GOVEKAR, Edvard, GRABEC, Igor. In-Process estimation of drill wear by a self-organizing neural network. V: KULJANIČ, Elso (ur.). 3rd International Conference, Udine, Italy, April 26-27, 1993. *Advanced manufacturing systems and technology AMST' 93 : proceedings*. Udine: CISM, 1993, vol. II, str. 105-112. [COBISS.SI-ID [1719067](#)]

42. GORNIK, Mateja, MALEŠIČ, Irena, NOVAK, Gabrijela, GOVEKAR, Edvard, GRABEC, Igor. Modeliranje na področju oplemenitenja papirjev. V: IGLIČ, Božo (ur.), MALEŠIČ, Irena (ur.). 21. mednarodni letni simpozij DITP, Bled, 23.-25. november 1994. *Zbornik predavanj*. Ljubljana: DITP, 1994, str. 111-115. [COBISS.SI-ID [17344](#)]

43. GOVEKAR, Edvard, MUŽIČ, Peter, GRABEC, Igor. In-process classification of chip form by

neural network. V: 16th International Conference UI '95. *Ultrasonics International 95 : [Edinburgh, Scotland], 5 - 7 July 1995*. London: Hawksmere, 1995, str. 210 (Intelligent signal processing). [COBISS.SI-ID [3972891](#)]

44. LEGAT, Andraž, GOVEKAR, Edvard. A comparison of spectral and chaotic analysis of electrochemical noise. V: KEARNS, Jeffery R. (ur.). *Electrochemical noise measurement for corrosion applications*, (STP, 1277). West Conshohocken: ASTM, cop. 1996, str. 129-141. [COBISS.SI-ID [91239](#)]

45. GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor. Ali je poraba električne energije v Sloveniji nelinearen proces? = Is electric energy consumption in Slovenia a nonlinear process?. V: ZAJC, Baldimir (ur.), SOLINA, Franc (ur.). *Zbornik pete Elektrotehniške in računalniške konference ERK '96, 19. - 21. september 1996, Portorož, Slovenija*. Ljubljana: IEEE Region 8, Slovenska sekcija IEEE, 1996, zv. A, str. 317-320. [COBISS.SI-ID [1979675](#)]

46. GOVEKAR, Edvard, GRABEC, Igor, OTTO, A., GEIGER, M. Control of laser beam penetration depth during welding. V: CHERNOUSKO, F... L. (ur.), FRADKOV, A... L. (ur.). *1997 1st International Conference Control of Oscillations and Chaos, St. Petersburg, Russia, August 27-29, Proceedings*. [S. l.]: IEEE, 1997, vol. 2, str. 342-344. [COBISS.SI-ID [2569499](#)]

47. GOVEKAR, Edvard, GRABEC, Igor. Chaotic characteristics of cutting process as features of tool wear. V: 4th Experimental Chaos Conference, Boca Raton, Florida, August 6-8, 1997. *Abstract booklet*. Arlington, VA: The Office of Naval Research, 1997, str. 78-79. [COBISS.SI-ID [2570779](#)]

48. GOVEKAR, Edvard, GRABEC, Igor. In-process prediction of cutting tool wear by RBF-NN. V: BULSARI, Abhay B. (ur.), KALLIO, S. (ur.). *Neural networks in engineering systems : proceedings of the [third] International Conference EANN '97, Stockholm, Sweden, 16-18 June 1997*. Turku, Finland: Systemiteknikan seura ry = System Engineering Association, 1997, str. 245-248. [COBISS.SI-ID [2449691](#)]

49. GRABEC, Igor, GOVEKAR, Edvard, GRADIŠEK, Janez, KLOCKE, F., SAXLER, W. Analysis of stochastic properties of cutting processes. V: 1. Symposium des Förderschwerpunktes, Schloß Etelsen bei Bremen, 17.-18.9.1997. *Untersuchung Nichtlinear-Dynamischer Effekte in Produktionstechnischen Systemen der Volkswagen Stiftung*. Hannover: Institut für Fabrikanlagen (IFA), 1997, 34 str. [COBISS.SI-ID [2559003](#)]

50. GORNIK, Mateja, NOVAK, Gabrijela, GOVEKAR, Edvard. Uporaba nevronske mreže za napovedovanje lastnosti premazanega papirja. V: IGLIČ, Božo (ur.), PEPELNJAK, Gabrijela (ur.). 23. mednarodni letni simpozij DITP = 23. internationales Jahressymposium DITP, Bled 20-22 november 1996. *Zbornik predavanj*. Ljubljana: DITP, 1997, 1996, str. 156-160, ilustr. [COBISS.SI-ID [28352](#)]

51. GOVEKAR, Edvard, GRABEC, Igor. Classification of cutting tool wear by chaotic characteristics. V: JEMIELNIAK, K. (ur.). *AC'98 : proceedings of the V International Conference on Monitoring and Automatic Supervision in Manufacturing, Warsaw, Poland, August [20-21, 1998]*. Warsaw: University of Technology, 1998, str. 71-76. [COBISS.SI-ID [102495](#)]

52. GEIGER, Manfred, BREITENBACH, Frank, GOVEKAR, Edvard, BRASSEL, Jan-Oliver. Fully automated Nd:YAG-welding-system for assembly of electronic components. V: 5th International Conference on Control, Automation, Robotics and Vision, Mandarin, Singapore, 9-11 December 1998. *ICARCV '98. Vol. 1, Proceedings*. Nanyang: Technological University, School of EEE, 1998, str. 25-29. [COBISS.SI-ID [2940955](#)]

53. GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor. A new method for chatter detection in turning = Nowa metoda detekcji drgań narzedzia w skrawaniu. V: JEDRZEJEWSKI, J... (ur.). IX

Workshop on Supervising and Diagnostics of Machining Systems, Karpacz, Poland, March 22-27, 1998. *Manufacturing simulation for industrial use*, (Prace Naukowe Instytutu Technologii Maszyn i Automatyzacji Politechniki Wrocławskiej, Konferencje, 69, 31). Wrocław: Oficyna Wydawnicza Politechniki Wrocławskiej, 1998, str. 163-172. [COBISS.SI-ID [2558235](#)]

54. GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor. Chaos in a cutting process. V: DING, Mingzhou (ur.), DITTO, William (ur.), PECORA, Louis (ur.), SPANO, Mark (ur.), VOHRA, Sandeep (ur.). *Proceedings of the 4th Experimental Chaos Conference : Boca Raton, Florida, USA, August 6-8, 1997*. Singapore [etc.]: World Scientific, 1998, str. 317-322. [COBISS.SI-ID [3009051](#)]

55. GEISEL, Mark, OTTO, A., GOVEKAR, Edvard, GRADIŠEK, Janez. Power modulation in laser welding processes. V: 2nd International Symposium, Aachen, February 25-26, 1999. *Investigation of nonlinear dynamic effects in production systems*. Aachen: ADITEC: RWTH, WZL, 1999, 14 str. [COBISS.SI-ID [2985243](#)]

56. GOVEKAR, Edvard, GRADIŠEK, Janez, GRABEC, Igor, GEISEL, Mark, OTTO, A., GEIGER, M. Influence of feed rate on dynamics of laser welding process. V: 2nd International Symposium, Aachen, February 25-26, 1999. *Investigation of nonlinear dynamic effects in production systems*. Aachen: ADITEC: RWTH, WZL, 1999, 15 str. [COBISS.SI-ID [2985499](#)]

57. BOLTEŽAR, Miha, GRADIŠEK, Janez, SIMONOVSKI, Igor, GOVEKAR, Edvard, GRABEC, Igor, KUHELJ, Anton. Bispectral analysis of the cutting process. V: *Proceedings of the IEEE Signal Processing Workshop on Higher-Order Statistics, Caesarea, Israel, June 14 - 16, 1999*. Los Alamitos, California [etc.]: IEEE Computer Society, 1999, str. 203-206. [COBISS.SI-ID [3208219](#)]

58. GOVEKAR, Edvard, GEISEL, Mark. On nonlinear dynamics of laser welding processes. V: *Technische Anwendungen von Erkenntnissen der Nichtlinearen Dynamik : Statusseminar, Frankfurt, 23.-24. Februar 1999*. Düsseldorf: VDI-Technologiezentrum Physikalische Technologien, 1999, str. 40. [COBISS.SI-ID [2984219](#)]

59. GOVEKAR, Edvard, GEISEL, Mark. On nonlinear dynamics of laser welding process. V: *Technische Anwendungen von Erkenntnissen der Nichtlinearen Dynamik : Statusseminar, Frankfurt, 23.-24. Februar 1999*. Düsseldorf: VDI-Technologiezentrum Physikalische Technologien, 1999, str. 209-212. [COBISS.SI-ID [3215131](#)]

60. GOVEKAR, Edvard, GRADIŠEK, Janez, GRABEC, Igor. Characterization of cutting process by methods of non-linear dynamics. V: *Technische Anwendungen von Erkenntnissen der Nichtlinearen Dynamik : Statusseminar, Frankfurt, 23.-24. Februar 1999*. Düsseldorf: VDI-Technologiezentrum Physikalische Technologien, 1999, str. 213-216. [COBISS.SI-ID [3215387](#)]

61. GRABEC, Igor, GRADIŠEK, Janez, GOVEKAR, Edvard, WEINERT, Klaus, MEHNEN, Jörn, KALVERAM, Martin. Analysis of high-speed milling dynamics: chatter vs. chatter-free cutting. V: 3rd International Symposium, Cottbus, Germany, September 26-27, 2000. *"Investigation of nonlinear dynamic effects in production systems"*. [Cottbus: Brandenburgische Technische Universität, 2000], 11 str. [COBISS.SI-ID [4276763](#)]

62. KLOCKE, Fritz, BAUS, Andreas, GRABEC, Igor, GRADIŠEK, Janez, GOVEKAR, Edvard. Analysis of stochastic properties of a grinding process. V: 3rd International Symposium, Cottbus, Germany, September 26-27, 2000. *"Investigation of nonlinear dynamic effects in production systems"*. [Cottbus: Brandenburgische Technische Universität, 2000], 12 str. [COBISS.SI-ID [4277275](#)]

63. GOVEKAR, Edvard, GRADIŠEK, Janez, GRABEC, Igor, GEISEL, Mark, OTTO, Andreas, GEIGER, Manfred. On characterization of CO2 laser welding process by means of light emitted by plasma and images of weld pool. V: 3rd International Symposium, Cottbus, Germany, September 26-

27, 2000. *"Investigation of nonlinear dynamic effects in production systems"*. [Cottbus: Brandenburgische Technische Universität, 2000], 16 str. [COBISS.SI-ID [4277019](#)]

64. MANDELJ, Simon, GRABEC, Igor, GOVEKAR, Edvard. Ocenjevanje povezanosti spremenljivk na osnovi vzajemne informativnosti = Estimation of dependence between variables by mutual information. V: ZAJC, Baldomir (ur.). *Zbornik devete Elektrotehniške in računalniške konference ERK 2000, 21. - 23. september 2000, Portorož, Slovenija*. Ljubljana: IEEE Region 8, Slovenska sekcija IEEE, 2000, zv. B, str. 155-158. [COBISS.SI-ID [3848987](#)]

65. GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor, MEHNEN, Jörn, KALVERAM, Martin, WEINERT, Klaus. Analysis of high-speed milling dynamics: chatter vs. chatter-free cutting. V: DUDZINSKI, Daniel (ur.), MOLINARI, Alain (ur.), SCHULZ, Herbert (ur.). 3rd International Conference on Metal Cutting and High Speed Machining, Metz, France, June 27-29, 2001. *Actes de la conference*. Metz: Ecole Nationale d'Ingenieurs de Metz, [2001], vol. 2, str. 103-106 (MP5P). [COBISS.SI-ID [4726811](#)]

66. GOVEKAR, Edvard, PELHAN, Jaka, GRABEC, Igor. Analysis of cutting tool wear predictability. V: DUDZINSKI, Daniel (ur.), MOLINARI, Alain (ur.), SCHULZ, Herbert (ur.). 3rd International Conference on Metal Cutting and High Speed Machining, Metz, France, June 27-29, 2001. *Actes de la conference*. Metz: Ecole Nationale d'Ingenieurs de Metz, [2001], vol. 2, str. 247-250 (CT1P). [COBISS.SI-ID [4727067](#)]

67. GOVEKAR, Edvard, JAHRSDOERFER, B., KLEMENČIČ, Jure, MUŽIČ, Peter, GRABEC, Igor. Characterization of laser droplet formation process by IR camera images and AE signals. V: Dynamics Days 2001, Dresden, Germany, June 5-8, 2001. *Book of abstracts*. Dresden: Max-Planck-Institut für Physik komplexer Systeme, 2001, str. 76-77 (P43). [COBISS.SI-ID [4425755](#)]

68. MANDELJ, Simon, GRABEC, Igor, GOVEKAR, Edvard. Non-parametric modeling of spatio-temporal dynamics using local state reconstruction. V: Dynamics Days 2001, Dresden, Germany, June 5-8, 2001. *Book of abstracts*. Dresden: Max-Planck-Institut für Physik komplexer Systeme, 2001, str. 94 (P86). [COBISS.SI-ID [4425499](#)]

69. GOVEKAR, Edvard, GRADIŠEK, Janez, GRABEC, Igor, GEISEL, Mark, OTTO, Andreas, GEIGER, Manfred. Analysis the dynamics of transition from deep to shallow penetration CO2 laser welding. V: BOCCALETTI, Stefano (ur.), GLUCKMAN, Bruce J. (ur.), KURTHS, Jürgen (ur.), PECARA, Louis M. (ur.), SPANO, Mark L. (ur.). *Experimental chaos : 6th Experimental Chaos Conference, Potsdam, Germany, 22-26 July 2001*, (AIP conference proceedings, vol. 622). Melville; New York: American Institute of Physics, 2002, str. 211-216. [COBISS.SI-ID [5306395](#)]

70. POTOČNIK, Primož, GOVEKAR, Edvard, GRABEC, Igor, STRMEC, Andrej. Neural network based characterization of compressors. V: European symposium on intelligent techniques, hybrid systems and their implementation of smart adaptive systems [also] Eunite 2002, September 19-21, 2002, Albufeira, Algarve, Portugal. *Final programme & Proceedings (Abstracts + CD)*. Mainz: Verlag; Aachen; Wissenschaftsverlag, [2002], str. 641-645. [COBISS.SI-ID [5507355](#)]

71. POTOČNIK, Primož, GOVEKAR, Edvard, GRABEC, Igor. Modular system for process monitoring. V: HAMZA, M.H. (ur.). *Proceedings of the Second IASTED International Conference Artificial Intelligence and Applications, September 9-12, 2002, Málaga, Spain*. Anaheim; Calgary; Zurich: ACTA Press, cop. 2002, str. 127-131. [COBISS.SI-ID [5510939](#)]

72. GOVEKAR, Edvard, GRADIŠEK, Janez, GRABEC, Igor, BAUS, Andreas, KLOCKE, Fritz, GEISEL, Mark, GEIGER, Manfred. Dynamics based monitoring of manufacturing processes : detection of transitions between process states. V: 4th International Symposium, april 8-9, 2003, Chemnitz, Germany. *Investigations on non-linear dynamic effects in production systems : papers*. [Chemnitz]: [s.n.], 2003, 9 str. [COBISS.SI-ID [7117595](#)]

- 73.** STEPAN, Gabor, SZALAI, Robert, MANN, Brian P., BAYLY, Philip V., INSPERGER, Tamas, GRADIŠEK, Janez, GOVEKAR, Edvard. Global attractors of high-speed milling-analysis, numerics and experiments. DETC03/VIB-48572. V: ASME Design Engineering Technical Conferences & Computers and Information in Engineering Conference, Chicago, Illinois, September 2-6, 2003 (CD-ROM). *Proceedings of DETC2003*. New York, NY: ASME International, cop. 2003, 48572.pdf (8 str.). [COBISS.SI-ID [7132443](#)]
- 74.** POTOČNIK, Primož, GOVEKAR, Edvard, GRADIŠEK, Janez, MUŽIČ, Peter, GRABEC, Igor, STRMEC, Andrej. Acoustic based fault detection system for the industrial production of compressors. V: *Proceedings of the 10th International Congress on Sound and Vibration, Stockholm, Sweden, 7-10 July 2003 : ICSV10*. [Stockholm, Sweden]: The International Institute of Acoustics and Vibration, 2003, str. 1371-1378. [COBISS.SI-ID [6304795](#)]
- 75.** KLEMENČIČ, Jure, KOKALJ, Tadej, GOVEKAR, Edvard, MUŽIČ, Peter, GRABEC, Igor. Laser droplet formation process : detection of droplet detachment by means of reflected light signals. V: JUNKAR, Mihael (ur.). *Proceedings of the 6th International Conference on Management of Innovative Technologies - MIT'2003, Piran, Slovenia, 13-14 October 2003*. Ljubljana: Slovene Society for Abrasive Water Jet Technology: Laboratory for Alternative Technologies, 2003, str. 181-186. [COBISS.SI-ID [6542619](#)]
- 76.** STÉPÁN, Gábor, SZALAI, Robert, INSPERGER, Tamas, MANN, Brian P., GRADIŠEK, Janez, GOVEKAR, Edvard, BAYLY, Philip V. Dynamics and stability of high-speed milling. V: MONOSTORI, László (ur.). *Digital enterprises, production networks : proceedings of the 37th CIRP International Seminar on Manufacturing Systems, Budapest, Hungary, May 19-21, 2004*. [Budapest: Computer and Automation Research Institute, 2004], str. 119-125. [COBISS.SI-ID [7285787](#)]
- 77.** ROZMAN, Robert, GOVEKAR, Edvard, GRABEC, Igor. Modelling of absorption waves in laser material processing. V: GEIGER, Manfred (ur.), OTTO, Andreas (ur.). *Laser Assisted Net Shape Engineering 4 : proceedings of the 4th LANE 2004, Erlangen, September 21-24, 2004*. Bamberg: Meisenbach, 2004, str. 371-382. [COBISS.SI-ID [7831067](#)]
- 78.** GRADIŠEK, Janez, KALVERAM, Martin, INSPERGER, Tamas, WEINERT, Klaus, STÉPÁN, Gábor, GOVEKAR, Edvard, GRABEC, Igor. On stability prediction for low radial immersion milling. V: MOISAN, André (ur.), POULACHON, G. (ur.). *Proceedings of the 7th CIRP International Workshop on Modeling of Machining Operations, May 04-05, 2004, Cluny, France*. Cluny, France: Laboratoire Bourguignon des Matériaux et Procédés, 2004, str. 227-233. [COBISS.SI-ID [7243291](#)]
- 79.** POTOČNIK, Primož, GOVEKAR, Edvard, GRABEC, Igor. Application of psychoacoustic filtering for machine fault detection. V: GRUM, Janez (ur.). 8th International Conference of the Slovenian Society for Non-Destructive Testing, Portorož, Slovenia, 1-3 September 2005. *Conference proceedings*. Ljubljana: Slovenian Society for Non-Destructive Testing, 2005, str. 293-298. [COBISS.SI-ID [8453659](#)]
- 80.** KOKALJ, Tadej, GOVEKAR, Edvard, KLEMENČIČ, Jure, MUŽIČ, Peter, GRABEC, Igor. Optimization of laser pulse for pendant droplet formation. V: CAMPEN, Dick H. van. (ur.), LAZURKO, M.D. (ur.), OEVER, W. P. J. M. van den (ur.). *Fifth EUROMECH Nonlinear Dynamic Conference, Eindhoven, The Netherland, August 7-12, 2005 : ENOC-2005 : proceedings*. [S.l.]: [s.n.], 2005, str. 834-840. [COBISS.SI-ID [8436763](#)]
- 81.** GRADIŠEK, Janez, KALVERAM, Martin, WEINERT, Klaus, GOVEKAR, Edvard, GRABEC, Igor. Identification of specific cutting force coefficients for general end mill geometry. V: NEUGEBAUER, Reimund (ur.). *Proceedings of the 8th CIRP International Workshop on Modeling of Machining Operations, May 10-11, 2005, Chemnitz, Germany*. Chemnitz, Germany: Fraunhofer-Institute for Machine Tools and Forming Technology IWU; Zwickau, Germany: Verlag

Wissenschaftliche Scripten, 2005, str. 283-291. [COBISS.SI-ID [8180763](#)]

82. POTOČNIK, Primož, GOVEKAR, Edvard, GRABEC, Igor, MUŽIČ, Peter. Psychoacoustic modeling for detection of dynamic machining phenomena. V: *Twelfth International Congress on Sound and Vibration, 11-14 July 2005, Lisbon, Portugal : ICSV12 : proceedings*. [Lisbon, Portugal]: The International Institute of Acoustics and Vibration, 2005, 8 str. [COBISS.SI-ID [8438043](#)]

83. GRADIŠEK, Janez, FRIEDRICH, Rudolf, GOVEKAR, Edvard, GRABEC, Igor. Possibilities for analysis of noisy time series data in machining. V: GRABEC, Igor (ur.), GOVEKAR, Edvard (ur.). *Proceedings of the 9th CIRP International Workshop on Modeling of Machinig Operations, May 11-12, 2006, Bled, Slovenia*. Ljubljana: Faculty of Mechanical Engineering, 2006, str. 413-419. [COBISS.SI-ID [9258011](#)]

84. KOKALJ, Tadej, MUŽIČ, Peter, GRABEC, Igor, GOVEKAR, Edvard. Modelling of laser pendant droplet formation and determination of a laser pulse. V: GRABEC, Igor (ur.), GOVEKAR, Edvard (ur.). *Proceedings of the 9th CIRP International Workshop on Modeling of Machinig Operations, May 11-12, 2006, Bled, Slovenia*. Ljubljana: Faculty of Mechanical Engineering, 2006, str. 549-555. [COBISS.SI-ID [9257243](#)]

85. ROZMAN, Robert, GOVEKAR, Edvard, GRABEC, Igor. Modeling of plasma shielding in laser material processing. V: GRABEC, Igor (ur.), GOVEKAR, Edvard (ur.). *Proceedings of the 9th CIRP International Workshop on Modeling of Machinig Operations, May 11-12, 2006, Bled, Slovenia*. Ljubljana: Faculty of Mechanical Engineering, 2006, str. 557-564. [COBISS.SI-ID [9256731](#)]

86. JERIČ, Anže, GOVEKAR, Edvard, GRADIŠEK, Janez, GRABEC, Igor. Influence of the housing on the noise emitted by a reciprocating compressor. V: 13th International congress on sound and vibration [also] ICSV13, July 2-6, 2006, Vienna, Austria. *Proceedings*. Vienna: University of technology, 2006, [8] str. [COBISS.SI-ID [9835291](#)]

87. PUŠAVEC, Franci, GOVEKAR, Edvard, GRADIŠEK, Janez, GRABEC, Igor. Model-based optimization of compressor mounting using genetic algorithms. V: 13th International congress on sound and vibration [also] ICSV13, July 2-6, 2006, Vienna, Austria. *Proceedings*. Vienna: University of technology, 2006, [8] str. [COBISS.SI-ID [9600539](#)]

88. POTOČNIK, Primož, THALER, Marko, GOVEKAR, Edvard, GRABEC, Igor, POREDOŠ, Alojz. Praktični vidiki strojnega napovedovanja odjema plina = Practical aspects of machine forecasting of natural gas consumption. V: BIBIČ, Boštjan (ur.). Mednarodno srečanje daljinske energetike in IX. strokovno posvetovanje, Portorož, 10.-12. april 2006. *Zbornik prispevkov*. Ljubljana: Slovensko društvo za daljinsko energetiko, 2006, str. 129-138. [COBISS.SI-ID [9233691](#)]

1.12 Published Scientific Conference Contribution Abstract

89. NOVAK, G., GOVEKAR, Edvard, GRABEC, Igor, MALEŠIČ, I., PRELESNIK, M. Optimierung der Streichfarbenzusammensetzung Mittels Neuronalem Netzwerk. V: *Kurzfassung der Vorträge : Österreichische Papiertagung, 21-24 Juni, 1994*. Graz: Technische Universität, 1994. [COBISS.SI-ID [1904667](#)]

90. NOVAK, Gabrijela, PRELESNIK, Mateja, MALEŠIČ, Irena, GOVEKAR, Edvard. Optimierung der Streichfarbenzusammensetzung mittels neuronalem Netzwerk : APV-Österreichische Papierfachtagung, Graz 21.-24. Juni 1994. *Papier (Darmst.)*, 1994, vol. 48, nr. 11, 700-708. [COBISS.SI-ID [17600](#)]

91. GRABEC, Igor, GOVEKAR, Edvard, SUSIČ, Egon, ANTOLOVIČ, Boris. Monitoring

- manufacturing processes by utilizing empirical modeling. V: *The 17th International Conference Ultrasonics International '97 : 2-4 July 1997, TU Delft, The Netherlands, Book of abstracts*. Oxford: Elsevier, 1997, str. 20. [COBISS.SI-ID [2451739](#)]
- 92.** GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor. Chaos in a cutting process. V: 4th Experimental Chaos Conference, Boca Raton, Florida, August 6-8, 1997. *Abstract booklet*. Arlington, VA: The Office of Naval Research, 1997, str. 47 (J2). [COBISS.SI-ID [2571035](#)]
- 93.** GRABEC, Igor, GRADIŠEK, Janez, GOVEKAR, Edvard, MUŽIČ, Peter, SUSIČ, Egon. Characterization of technological processes. V: *Non-linear dynamics in mechanical processing : COST P4 - Workshop, Dortmund, Germany, November 5-6, 1998*. Dortmund: University, Faculty of Mechanical Engineering, 1998, 3 str. [COBISS.SI-ID [2871579](#)]
- 94.** GOVEKAR, Edvard, GRADIŠEK, Janez, GRABEC, Igor. Non-linear dynamics of cutting process and its influence on workpiece and tool. V: *Non-linear dynamics in mechanical processing : COST P4 - Workshop, Dortmund, Germany, November 5-6, 1998*. Dortmund: University, Faculty of Mechanical Engineering, 1998, 3 str. [COBISS.SI-ID [2871323](#)]
- 95.** GOVEKAR, Edvard, GRADIŠEK, Janez, GRABEC, Igor. Analysis of acoustic emission and monitoring of machining processes : invited paper. V: *Ultrasonics International '99 joint with 1999 World Congress on Ultrasonics, Lyngby, Denmark, 29 June - 1 July, 1999. Book of abstracts*. [Lyngby: Technical University of Denmark, Department of Industrial Acoustics, 1999], str. [262]. [COBISS.SI-ID [3495195](#)]
- 96.** GOVEKAR, Edvard, GRADIŠEK, Janez, GRABEC, Igor. Characterisation of cutting process by methods of non-linear dynamics. V: *Technische Anwendungen von Erkenntnissen der Nichtlinearen Dynamik : Statusseminar, Frankfurt, 23.-24. Februar 1999*. Düsseldorf: VDI-Technologiezentrum Physikalische Technologien, 1999, str. 41. [COBISS.SI-ID [2984475](#)]
- 97.** GOVEKAR, Edvard, GRADIŠEK, Janez, GRABEC, Igor, GEISEL, Mark, OTTO, Andreas, GEIGER, Manfred. Analysis of dynamics of transition from keyhole to heat conduction of CO2 laser beam welding. V: 6th Experimental Chaos Conference, Postdam, Germany, July 22-26, 2001. *Abstract booklet*. Arlington, VA: US Office of Naval Research, 2001, str. 20 (F3). [COBISS.SI-ID [4712475](#)]
- 98.** MANDELJ, Simon, GRABEC, Igor, GOVEKAR, Edvard. Non-parametric modeling of spatio-temporal dynamics using local state reconstruction. V: VOSS, Henning U. (ur.), TIMMER, Jens (ur.), KURTHUS, Jürgen (ur.). International Workshop "Modeling and Identification of Continuous Nonlinear Dynamical Systems", Freiburg, Germany, September 23-26, 2001. *Abstract booklet*. Freiburg: FDM, 2001, str. 19-20. [COBISS.SI-ID [5013531](#)]
- 99.** GOVEKAR, Edvard, MUŽIČ, Peter, KLEMENČIČ, Jure, GRABEC, Igor. Detachment of laser generated droplet indicated by acoustic emission. V: *Ultrasonics International 2001, Delft, The Netherlands, July 3-5, 2001. Abstract book*. Delft: Technical University of Delft, 2001, paper B3.15. [COBISS.SI-ID [4476955](#)]
- 100.** GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor, BAUS, Andreas, KLOCKE, Fritz. Detecting chatter in grinding. V: DUDZINSKI, Daniel (ur.), MOLINARI, Alain (ur.), SCHULZ, Herbert (ur.). 3rd International Conference on Metal Cutting and High Speed Machining, Metz, France, June 27-29, 2001. *Actes de la conference*. Metz: Ecole Nationale d'Ingenieurs de Metz, [2001], vol. 1, str. 209-210. [COBISS.SI-ID [4727323](#)]
- 101.** GRABEC, Igor, GOVEKAR, Edvard, GRADIŠEK, Janez. Experimental modeling of manufacturing process dynamics. V: *Dynamics Days 2001, Dresden, Germany, June 5-8, 2001. Book of abstracts*. Dresden: Max-Planck-Institut für Physik komplexer Systeme, 2001, str. 44 [MS-FRI-3]

(1)]. [COBISS.SI-ID [4425243](#)]

102. GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor. Stochastic dynamics of laser beam welding and metal cutting. V: Dynamics Days 2001, Dresden, Germany, June 5-8, 2001. *Book of abstracts*. Dresden: Max-Planck-Institut für Physik komplexer Systeme, 2001, str. 77 (P44). [COBISS.SI-ID [4426011](#)]

103. GRADIŠEK, Janez, FRIEDRICH, Rudolf, GOVEKAR, Edvard, GRABEC, Igor. Analysis of stochastic processes based on time series data. V: PAVLOVSKAIA, Ekaterina (ur.), WIERCIGROCH, Marian (ur.). EUROMECH Colloquium 425, Aberdeen, Scotland, August 20-24, 2001. *Nonlinear dynamics, control and condition monitoring : book of abstracts*. Aberdeen: University of Aberdeen, 2001, str. 20. [COBISS.SI-ID [4560923](#)]

104. GOVEKAR, Edvard, GRADIŠEK, Janez, GRABEC, Igor. On nonlinear phenomena in manufacturing processes. SYAD 1.2 : invited lecture at the AKF-Frühjahrstagung bei der DPG, Regensburg, 11. bis 15. März 2002. *Verh. Dtsch. Phys. Ges. (1966)*, 2002, rh. 6, bd. 37/1, str. 454. [COBISS.SI-ID [5117467](#)]

105. KOKALJ, Tadej, GOVEKAR, Edvard, KLEMENČIČ, Jure, MUŽIČ, Peter, GRABEC, Igor. Lasersko tvorjenje kapljic iz žice majhnega premera. *Slov. srečanje uporab. fiz.*, 07. nov. 2003, 1 str. [COBISS.SI-ID [7011867](#)]

106. GOVEKAR, Edvard, KLEMENČIČ, Jure, KOKALJ, Tadej, JAHRSDÖRFER, B., MUŽIČ, Peter, GRABEC, Igor. Characterisation of laser droplet generation process by acoustic emission. V: *Ultrasonics International 2003, 30 June - 3 July 2003, Granada, Spain : abstract book*. Amsterdam [etc.]: Elsevier, 2003, str. [47]. [COBISS.SI-ID [6266907](#)]

107. KOKALJ, Tadej, GOVEKAR, Edvard, KLEMENČIČ, Jure, MUŽIČ, Peter, GRABEC, Igor. Optimization of laser pulse for pendant droplet formation. V: CAMPEN, Dick H. van. (ur.), LAZURKO, M.D. (ur.), OEVER, W. P. J. M. van den (ur.). *Fifth EUROMECH Nonlinear Dynamic Conference, Eindhoven, The Netherlands, August 7-12, 2005 : book of abstracts : ENOC-2005*. [S.l.]: [s.n.], 2005, str. 97. [COBISS.SI-ID [8436251](#)]

108. ROZMAN, Robert, GOVEKAR, Edvard, GRABEC, Igor. Modeling of material ablation and plasma plume formation induced by high-intensity laser beam pulses. V: Advances in Physics and Astrophysics of the 21st Century, Varna, Bulgaria, September 6-11, 2005. *International Conference : programme and abstracts*, (Bulgarian Journal of Physics, Letn. 32(3), Supplement). Sofia: Heron, 2005, str. 12. [COBISS.SI-ID [8759323](#)]

109. ROZMAN, Robert, JEROMEN, Andrej, GOVEKAR, Edvard, GRABEC, Igor. Razvoj plazemskega oblaka pri obsevanju kovine z lasersko svetlobo. V: TKALEC, Uroš (ur.), ŠKARABOT, Miha (ur.), MUŠEVIČ, Igor (ur.). 5. konferenca fizikov v osnovnih raziskavah, Gozd Martuljek, 10. november 2006. *Zbornik povzetkov*, (Publikacija DMFA, št. 1638). Ljubljana: DMFA, založništvo, 2006, 1 str. [COBISS.SI-ID [9820955](#)]

1.16 Independent Scientific Component Part in a Monograph

110. GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor, BAUS, Andreas, KLOCKE, Fritz. Detecting chatter in grinding. V: DUDZINSKI, Daniel (ur.), MOLINARI, Alain (ur.), SCHULZ, Herbert (ur.). *Metal cutting and high speed machining*. New York [etc.]: Kluwer Academic: Plenum Publishers, 2002, str. 161-170. [COBISS.SI-ID [5224987](#)]

111. GOVEKAR, Edvard, GRADIŠEK, Janez, GRABEC, Igor, BAUS, Andreas, KLOCKE, Fritz,

GEISEL, Mark, GEIGER, Manfred. Dynamics-based monitoring of manufacturing processes : detection of transition between process states. V: RADONS, Günter (ur.). *Nonlinear dynamics of production systems*. Weinheim: Wiley-VCH, cop. 2004, str. 469-480. [COBISS.SI-ID [6958619](#)]

1.20 Preface, Afterword

112. PIKOVSKY, Arkady, GOVEKAR, Edvard. Preface : "A direct link between theory ...". V: GOVEKAR, Edvard (ur.). COST-P4 Non-linear Dynamics in Mechanical Processing. *Proceedings of the Workshop: Characterization of Manufacturing Processes: Synergetics and Data Processing Methods, Ljubljana, May 25 - 26, 2000*. Ljubljana: Faculty of Mechanical Engineering, 2000, str. 3. [COBISS.SI-ID [3799579](#)]

1.25 Other Articles or Component Parts

113. GOVEKAR, Edvard, POTOČNIK, Primož, GRADIŠEK, Janez. Brief curriculum vitae of Prof. Igor Grabec. V: GOVEKAR, Edvard (ur.). COST-P4 Non-linear Dynamics in Mechanical Processing. *Proceedings of the Workshop: Characterization of Manufacturing Processes: Synergetics and Data Processing Methods, Ljubljana, May 25 - 26, 2000*. Ljubljana: Faculty of Mechanical Engineering, 2000, str. 5, portret. [COBISS.SI-ID [3799835](#)]

114. KOKALJ, Tadej, KLEMENČIČ, Jure, GOVEKAR, Edvard, GRABEC, Igor. Določitev laserskega pulza za tvorjenje kapljice. V: KLANJŠEK, Martin (ur.). *Znanstveno delo podiplomskih študentov v Sloveniji - "publish or perish!" : e-knjiga*. Ljubljana: Društvo mladih raziskovalcev Slovenije, 2004, str. 235-242. [COBISS.SI-ID [18906919](#)]

MONOGRAPHS AND OTHER COMPLETED WORKS

2.08 Doctoral Dissertation

115. GOVEKAR, Edvard. *Uporaba nevronske mreže za napoved časovno odvisnih parametrov tehniških procesov = [Prediction of technical process parameters by means of neural networks] : disertacija*, (Fakulteta za strojništvo, Ljubljana, Doktorske disertacije, [120], 160). Ljubljana: [E. Govekar], 1994. 73, [3] f., graf. prikazi. [COBISS.SI-ID [953883](#)]

2.12 Final Research Report

116. GOVEKAR, Edvard. *Analiza in karakterizacija vpliva modulacije izstopne moči laserskega žarka na kvaliteto procesa varjenja s CO2 laserskim žarkom = Analysis and characterisation of influence of output laser beam power modulation on the quality of CO2 laser beam welding process : letno poročilo za leto 1997*. Ljubljana: Fakulteta za strojništvo, LATEF, 1998. 13 str., ilustr. [COBISS.SI-ID [2568987](#)]

117. GRABEC, Igor, MUŽIČ, Peter, GOVEKAR, Edvard, SUSIČ, Egon, KOKOL, Miran, GRADIŠEK, Janez, POTOČNIK, Primož, KOSEL, Tadej, MANDELJ, Simon, ECIMOVIC, Timotej. *Sinergetika tehnoloških procesov : letno poročilo o rezultatih raziskovalnega projekta v letu 1997*. Ljubljana: Fakulteta za strojništvo, Laboratorij za tehniško fiziko, 1998. 34 str. loč. pag., graf. prikazi. [COBISS.SI-ID [2483739](#)]

118. GRABEC, Igor, MUŽIČ, Peter, GOVEKAR, Edvard, SUSIČ, Egon, KOKOL, Miran, GRADIŠEK, Janez, POTOČNIK, Primož, KOSEL, Tadej, MANDELJ, Simon, ECIMOVIC, Timotej. *Sistem za sprotno karakterizacijo tehniških procesov : letno poročilo o rezultatih raziskovalnega projekta v letu 1997*. Ljubljana: Fakulteta za strojništvo, Laboratorij za tehniško fiziko, 1998. 24 str. loč. pag., graf. prikazi. [COBISS.SI-ID [2481691](#)]

119. GOVEKAR, Edvard. *Analiza in karakterizacija vpliva modulacije izstopne moči laserskega žarka na kvaliteto procesa varjenja z laserskim žarkom = Analysis and characterisation of influence of modulation of output laser beam power on the quality of laser beam welding process : letno poročilo o rezultatih raziskovalnega projekta v letu 1998*. Ljubljana: Fakulteta za strojništvo, Laboratorij za tehniško fiziko, 1999. 1 zv. (loč. pag.). [COBISS.SI-ID [2958619](#)]

120. GRABEC, Igor, MUŽIČ, Peter, GOVEKAR, Edvard, SUSIČ, Egon, GRADIŠEK, Janez, KOKOL, Miran, KOSEL, Tadej, POTOČNIK, Primož, MANDELJ, Simon. *Sinergetika tehnoloških procesov = Synergetics of technological processes : letno poročilo o rezultatih raziskovalnega projekta v letu 1998*. Ljubljana: Fakulteta za strojništvo, Laboratorij za tehniško fiziko, 1999. 1 zv. (loč. pag.). [COBISS.SI-ID [2958363](#)]

121. GRABEC, Igor, MUŽIČ, Peter, GOVEKAR, Edvard, SUSIČ, Egon, GRADIŠEK, Janez, KOKOL, Miran, KOSEL, Tadej, POTOČNIK, Primož, MANDELJ, Simon. *Sistem za sprotno karakterizacijo tehniških procesov : zaključno poročilo o rezultatih raziskovalnega projekta v letu 1998*. Ljubljana: Fakulteta za strojništvo, 1999. 1 zv. (loč. pag.). [COBISS.SI-ID [2955547](#)]

122. HOVING, Willem, GOVEKAR, Edvard, MUŽIČ, Peter, GRABEC, Igor. *Droplet weld : an environmentally friendly, lead-free joining technology using metal droplets, Periodic progress report : first six months (01.03.2000 to 01.09.2000)*, (BRITE/EURAM programme, Droplet weld, DW-PPR-10-CFT-07-1). Eindhoven: Philips Electronics Nederland, 2000. 15 str., tabele. [COBISS.SI-ID [4099355](#)]

123. GOVEKAR, Edvard, KLEMENČIČ, Jure, MUŽIČ, Peter, GRABEC, Igor. *Droplet weld WP6 welding physics, Deliverable 6.4 model : droplet formation and impact. Part I, Droplet formation*, (BRITE/EURAM programme, Droplet weld, DW-DEL-3-CFT-06-1). Ljubljana: Faculty of Mechanical Engineering, LASIN, 2001. 10 str., graf. prikazi. [COBISS.SI-ID [4652571](#)]

124. GOVEKAR, Edvard, MUŽIČ, Peter, GRABEC, Igor. *Prototype sensor : laser droplet welding process, Droplet weld WP3 : deliverable D3.1*, (BRITE/EURAM programme, Droplet weld, DW-DEL-01-CFT-06-1). Ljubljana: Faculty of Mechanical Engineering, LATEF, 2000. 8 str., ilustr. [COBISS.SI-ID [4210715](#)]

125. THALER, Marko, POREDOŠ, Alojz, GRABEC, Igor, POTOČNIK, Primož, GOVEKAR, Edvard, TORKAR, Jože, JURAK, Ivo. *Napovedovanje odjema energije v daljinskih energetskih sistemih : okt. 2005*. Ljubljana: Fakulteta za strojništvo, Laboratorij za hladilno tehniko, 2005. 8 str., graf. prikazi. [COBISS.SI-ID [8640795](#)]

2.13 Treatise, Preliminary Study, Study

126. GOVEKAR, Edvard, GRADIŠEK, Janez, MUŽIČ, Peter, GRABEC, Igor. *Detection of welding faults on pump rotor ribs*. Ljubljana: Fakulteta za strojništvo, Laboratorij za sinergetiko, 2005. 5 str., graf. prikazi. [COBISS.SI-ID [8744987](#)]

127. GOVEKAR, Edvard, GRADIŠEK, Janez, MUŽIČ, Peter, GRABEC, Igor. *Možnosti zmanjševanja vibracij in hrupnosti pri kompresorjih za gospodinjske aparate*. Ljubljana: Fakulteta za strojništvo, Laboratorij za sinergetiko, 2005. 11 str., graf. prikazi. [COBISS.SI-ID [8745499](#)]

128. GOVEKAR, Edvard, GRADIŠEK, Janez, MUŽIČ, Peter, GRABEC, Igor. *Eksperimentalna študija vpliva temperature bloka kompresorja na premer izvrtine na bloku*. Ljubljana: Fakulteta za strojništvo, Laboratorij za sinergetiko, 2006. 14 str., graf. prikazi. [COBISS.SI-ID [8981019](#)]

129. POREDOŠ, Alojz, GRABEC, Igor, GOVEKAR, Edvard, THALER, Marko, POTOČNIK, Primož. *Zagotavljanje napovedi toplotnih odjemov v toplovodnem sistemu JP toplotna oskrba Maribor*. Ljubljana: Fakulteta za strojništvo, LHT, LASIN, 2006. 5 str. [COBISS.SI-ID [9598747](#)]

2.24 Patent

130. GORNIK, Mateja, NOVAK, Gabrijela, GOVEKAR, Edvard, GRABEC, Igor. *Patent SI 9500247 A, Metoda in naprava za napovedovanje lastnosti premaznih papirjev in kartonov*. Ljubljana: Urad RS za intelektualno lastnino, 1997. 8 str. [COBISS.SI-ID [2570011](#)]

2.25 Other Monographs and Other Completed Works

131. LU, X., GOVEKAR, Edvard, SACHSE, W., GRABEC, Igor. *Materials Science Center Report. 8265, Synergistic diagnostics of aircraft materials and structures*. Ithaca, NY: Cornell University, 1997. 1 zv. [COBISS.SI-ID [2569755](#)]

PERFORMED WORKS (EVENTS)

3.13 Organizing scientific and professional meetings

132. PIKOVSKY, Arkady, GOVEKAR, Edvard. *COST-P4 Non-linear Dynamcis in Mechanical Processing, Workshop on Characterization of Manufacturing Processes: Synergetics and Data Processing Methods*. Ljubljana, Slovenia, May 25-26, 2000. [COBISS.SI-ID [3800603](#)]

3.14 Invited Lecture at Foreign University

133. GOVEKAR, Edvard. *A neural network based diagnostic tool for vibrating systems : with applications to machining processes*. Ithaca, New York: Cornell University, May 14, 1997. [COBISS.SI-ID [2570267](#)]

3.15 Unpublished Conference Contribution

134. GRABEC, Igor, GOVEKAR, Edvard, GRADIŠEK, J.. *Analysis of stochastic properties of cutting processes : 1. symposium des förderschwerpunktes, 17. - 18. 9. 1997, Schloß Etelsen bei Bremen : Untersuchung Nichtlinear-Dynamischer Effekte in Produktionstechnischen Systemen der Volkswagen Stiftung*. [COBISS.SI-ID [2314523](#)]

135. THALER, Marko, POTOČNIK, Primož, POREDOŠ, Alojz, GOVEKAR, Edvard, GRABEC, Igor. *Ekonomski vidik vpeljave strojnega napovedovanja : sodelovanje na delavnici Napovedovanje odjema plina iz distribucijskega omrežja*. Ljubljana, 14.10.2005: Fakulteta za strojništvo, Ljubljana. [COBISS.SI-ID [8980763](#)]

136. POTOČNIK, Primož, GOVEKAR, Edvard, GRABEC, Igor, POREDOŠ, Alojz, THALER, Marko. *Model strojnega napovedovanja odjema plina : sodelovanje na delavnici Informacijska tehnologija kot podpora Energetskemu managementu*. Ljubljana, 20.10.2005: Genera Lynx, Ljubljana. [COBISS.SI-ID [8980507](#)]

137. POTOČNIK, Primož, GOVEKAR, Edvard, GRABEC, Igor, POREDOŠ, Alojz, THALER, Marko. *Model strojnega napovedovanja odjema plina : sodelovanje na delavnici Napovedovanje odjema plina iz distribucijskega omrežja*. Ljubljana, 14.10.2005: Fakulteta za strojništvo, Ljubljana. [COBISS.SI-ID [8980251](#)]

3.25 Other Performed Works

138. GOVEKAR, Edvard. Chairman of the session. *Dynamics Days 2001. Minisymposia MS-FRI-3, Applications in engineering*. Dresden, Germany, June 5-8, 2001. [COBISS.SI-ID [4420635](#)]

139. PEKLENIK, Janez, BUTALA, Peter, GOVEKAR, Edvard, GRABEC, Igor, GRUM, Janez, JUNKAR, Mihael, KUZMAN, Karl, SLUGA, Alojz, STARBEK, Marko. Members of the International programme committee. *39th CIRP International Seminar on Manufacturing Systems : the morphology of innovative manufacturing systems*. Ljubljana, June 7th-9th, 2006. [COBISS.SI-ID [9345307](#)]

SECONDARY AUTHORSHIP

Editor

140. GOVEKAR, Edvard (ur.). COST-P4 Non-linear Dynamics in Mechanical Processing. *Proceedings of the Workshop: Characterization of Manufacturing Processes: Synergetics and Data Processing Methods, Ljubljana, May 25 - 26, 2000*. Ljubljana: Faculty of Mechanical Engineering, 2000. 120 str., ilustr. ISBN 961-6238-40-X. [COBISS.SI-ID [107436032](#)]

141. GRABEC, Igor (ur.), GOVEKAR, Edvard (ur.). *Proceedings of the 9th CIRP International Workshop on Modeling of Machinig Operations, May 11-12, 2006, Bled, Slovenia*. Ljubljana: Faculty of Mechanical Engineering, 2006. XII, 568 str., ilustr., tabele. ISBN 961-6536-06-0. [COBISS.SI-ID [226413568](#)]

Supervisor for Doctoral Dissertations

142. KLEMENČIČ, Jure. *Karakterizacija laserskega tvorjenja kovinskih kapljic = [Characterization of laser metal droplet formation] : doktorsko delo*, (Fakulteta za strojništvo, Ljubljana, Doktorske disertacije, [242], 324). Ljubljana: [J. Klemenčič], 2005. 108 f., graf. prikazi, ilustr. [COBISS.SI-ID [8779803](#)]

143. KOKALJ, Tadej. *Modeliranje in optimizacija laserskega tvorjenja kapljic iz kovinske žice = [Modeling and optimization of laser droplet formation from metal wire] : doktorsko delo*, (Fakulteta za strojništvo, Ljubljana, Doktorske disertacije, 345). Ljubljana: [T. Kokalj], 2006. XVI, 121 str., barvne ilustr. [COBISS.SI-ID [9811995](#)]

144. KOKALJ, Tadej. *Modeliranje in optimizacija laserskega tvorjenja kapljic iz kovinske žice : doktorsko delo*. Ljubljana: [T. Kokalj], 2006. 1 optični disk (CD-ROM). [COBISS.SI-ID [231218176](#)]

Supervisor for Master's Theses

145. KLEMENČIČ, Jure. *Raziskava laserskega tvorjenja kapljic iz žice majhnega premera = [Investigation of laser droplet formation from a small diameter wire] : magistrsko delo*, (Fakulteta za strojništvo, Ljubljana, Magistrska dela, 1217). Ljubljana: [J. Klemenčič], 2003. 77 f., ilustr., graf. prikazi. [COBISS.SI-ID [5657115](#)]

Supervisor for Undergraduate Theses

146. JERIČ, Anže. *Analiza akustične emisije kompresorja za gospodinjske aparate = [Acoustic emission analysis of a compressor for domestic appliances] : diplomska naloga*, (Fakulteta za strojništvo, Ljubljana, Diplomske naloge univerzitetnega študija, 5487). Ljubljana: [A. Jerič], 2005. 63 f., [1], graf. prikazi. [COBISS.SI-ID [8450331](#)]

147. PUŠAVEC, Franci. *Analiza nihanj in sil pri kompresorju za gospodinjske aparate = [Analysis of vibration and forces of a reciprocating compressor used in domestic appliances] : diplomska naloga*, (Fakulteta za strojništvo, Ljubljana, Diplomske naloge univerzitetnega študija, 5488). Ljubljana: [F. Pušavec], 2005. 87 f., [1], graf. prikazi. [COBISS.SI-ID [8448027](#)]

148. SUHAČ, Blaž. *Avtomatsko zaznavanje mehanskih napak kompresorjev na osnovi signala akustične emisije = [Automatic detection of mechanical faults in reciprocating compressors based on acoustic emission] : diplomska naloga*, (Fakulteta za strojništvo, Ljubljana, Diplomske naloge univerzitetnega študija, 5489). Ljubljana: [B. Suhač], 2005. 60 f., [1], graf. prikazi. [COBISS.SI-ID [8444699](#)]

Supervisor - Other

149. WAGNER, Andrej. *Kaotična dinamika : seminarska naloga*. Ljubljana: Fakulteta za strojništvo, 2002. 55 str., graf. prikazi. [COBISS.SI-ID [7200283](#)]

150. JANEŽIČ, Miha. *Seminarska naloga pri predmetu Kaotična dinamika*. Ljubljana: Fakulteta za strojništvo, 2003. 54 str., ilustr. [COBISS.SI-ID [6479387](#)]

151. JERIČ, Anže. *Analiza akustične emisije kompresorjev za gospodinjske aparate = [Acoustic emission analysis of compressors for domestic appliances] : Prešernove nagrade študentom za leto 2005 ...*, (Fakulteta za strojništvo, Ljubljana, Prešernove nagrade). Ljubljana: [A. Jerič], 2005. 62 f., graf. prikazi, barvne ilustr. [COBISS.SI-ID [8714267](#)]

Co-Supervisor for Doctoral Dissertations

152. MANDELJ, Simon. *Nelinearno statistično modeliranje stohastičnih polj = [Nonlinear statistical modeling of stochastic fields] : doktorsko delo*, (Fakulteta za strojništvo, Ljubljana, Doktorske disertacije, [185], 236). Ljubljana: [S. Mandelj], 2001. 95 str., ilustr., graf. prikazi. [COBISS.SI-ID [4821019](#)]

Co-Supervisor for Undergraduate Theses

153. PRIMOŽIČ, Urban. *Študija kinematike taline v coni preoblikovanja kovine z laserskim izvorom = [Study of molten pool kinematics in laser metal processing] : diplomsko delo*, (Fakulteta za

strojništvo, Ljubljana, Diplomaska naloga visokošolskega študija, 5006). Ljubljana: [U. Primožič], 1999. 53 f., ilustr., graf. prikazi. [COBISS.SI-ID [3477019](#)]

154. PELHAN, Jaka. *Analiza napovedljivosti obrabe rezalnega orodja = [Cutting tool wear predictability analysis] : diplomaska naloga*, (Fakulteta za strojništvo, Ljubljana, Diplomske naloge univerzitetnega študija, 5099). Ljubljana: [J. Pelhan], 2000. 45 f., graf. prikazi. [COBISS.SI-ID [3947803](#)]

155. MAKOVŠEK, Janez. *Uporaba metod spektralne analize višjega reda za analizo tehniških procesov = [Application of methods of higher order spectral analysis for analysis of technical processes] : diplomaska naloga*, (Fakulteta za strojništvo, Ljubljana, Diplomske naloge univerzitetnega študija, 5052). Ljubljana: [J. Makovšek], 2000. 67 f., ilustr., graf. prikazi. [COBISS.SI-ID [3759131](#)]

156. ROZMAN, Robert. *Nestabilnost absorpcijskih valov pri laserski obdelavi materialov : diplomsko delo*. Ljubljana: [R.Rozman], 2003. 36 f., graf. prikazi. [COBISS.SI-ID [1704548](#)]

Co-Supervisor - Other

157. PELHAN, Jaka. *Analiza napovedljivosti obrabe rezalnega orodja = [Cutting tool wear predictability analysis] : ... Prešernove nagrade študentom za leto 2000 ...*, (Fakulteta za strojništvo, Ljubljana, Prešernove nagrade). Ljubljana: [J. Pelhan], 2000. 45 f., pril., ilustr. [COBISS.SI-ID [4172315](#)]

Member of thesis defence committee

158. JURIŠEVIČ, Boštjan. *Inkrementalno preoblikovanje, tehnologija obdelave z visokohitrostnimi curki in zasnova preizkuševališča za inkrementalno preoblikovanje pločevine z vodnim curkom*. Ljubljana: Fakulteta za strojništvo, 2004. 1 zv., graf. prikazi. [COBISS.SI-ID [7530779](#)]

UNCLASSIFIED

159. GOVEKAR, Edvard. *Uporaba nevronske mreže pri analizi naključnih pojavov v strojništvu : magisterij*. Ljubljana: [E. Govekar], 1990. 54, 3 f., graf. prikazi. [COBISS.SI-ID [22355456](#)]

Request for bibliography sent from: 193.2.79.250(193.2.79.250)
Selected format of bibliographic unit: ISO 690

Source of bibliographic records: shared data base COBIB.SI