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## JANEZ GRADIŠEK [18081]

### Personal bibliography for the period

### 1994-2003

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#### ARTICLES AND OTHER COMPONENT PARTS

##### 1.01 Original Scientific Article

1. GRADIŠEK, Janez, GOVEKAR, Edvard, GRABEC, Igor. A chaotic cutting process and determining optimal cutting parameter values using neural networks. *Int. j. mach. tools manif.* [Print ed.], 1996, vol. 36, no. 10, str. 1161-1172. [COBISS.SI-ID 2064923]
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4. 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]
5. 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]
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7. GOVEKAR, Edvard, GRADIŠEK, Janez, GRABEC, Igor. Analysis of acoustic emission signals and monitoring of machining processes. V: ALIPPI, A. (ur.). *Proceedings of Ultrasonics International 1999 joint with 1999 World Congress on Ultrasonics : Lyngby, June 29 - July 1, 1999*, (Ultrasonics, vol. 38, no. 1/8, 2000). Amsterdam [etc.]: Elsevier, 2000, str. 598-603. <http://www.elsevier.nl/gej-ng/10/42/18/34/25/141/abstract.html>. [COBISS.SI-ID 3799323]
8. 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://www.idealibrary.com/links/artid/jsvi.2000.3388>. [COBISS.SI-ID 4322843]

9. 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]

10. 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]

11. GRADIŠEK, Janez, GRABEC, Igor, SIEGERT, Silke, FRIEDRICH, Rudolf. Qualitative and quantitative analysis of stochastic processes based on measured data. Part I, Theory and applications to synthetic data. *J. Sound Vib.*, 2002, vol. 252, no. 3, str. 545-562. <http://www.idealibrary.com/links/doi/10.1006/jsvi.2001.4148>. [COBISS.SI-ID 5176859]

12. 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://www.idealibrary.com/links/doi/10.1006/jsvi.2001.4051>. [COBISS.SI-ID 5177115]

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15. 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]

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### 1.05 Popular Article

17. GRADIŠEK, Janez. Krmiljenje kaotičnih procesov. *Življ. teh.*, okt. 1995, letn. 46, str. 64-65. [COBISS.SI-ID 2555931]

18. GRADIŠEK, Janez. Kaos je znak zdravja. *Življ. teh.*, maj 1996, letn. 47, str. 43-46. [COBISS.SI-ID 2556187]

19. GRADIŠEK, Janez. Fraktalna geometrija narave. *Življ. teh.*, jul.-avg. 1997, letn. 48, str. 28-34. [COBISS.SI-ID 2556443]

### 1.06 Published Scientific Conference Contribution (invited lecture)

20. 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]

### 1.08 Published Scientific Conference Contribution

21. 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, Baldomir (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]

22. 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]

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27. KLOCKE, F., BAUS, A., GRABEC, Igor, SUSIČ, Egon, GRADIŠEK, Janez. Analysis of stochastic properties of the grinding process. 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 2984987]

28. 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]

29. 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]
30. 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]
31. 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]
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33. 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]
34. 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]
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36. GRADIŠEK, Janez, SIEGERT, Silke, FRIEDRICH, Rudolf, GRABEC, Igor. On bifurcation phenomena in metal cutting. V: BROOMHEAD, David S. (ur.), LUCHINSKAYA, Elena A. (ur.), MCCLINTOCK, Peter V. E. (ur.), MULLIN, Tom (ur.). *Stochastic and chaotic dynamics in the lakes, Stochaos : Ambleside, Cumbria, UK, August 1999*, (AIP conference proceedings, 502). Melville, New York: American Institute of Physics, cop. 2000, str. 476-481. [COBISS.SI-ID 3585819]
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39. 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]

## 1.12 Published Scientific Conference Contribution Abstract

40. 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]
41. 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]
42. SUSIČ, Egon, GRABEC, Igor, GRADIŠEK, Janez. Investigation of chaotic properties of the grinding process. 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 2872091]
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45. 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]
46. 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]
47. 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]

48. 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]

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50. 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]

### 1.16 Independent Scientific Component Part in a Monograph

51. 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]

### 1.25 Other Articles or Component Parts

52. 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]

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## MONOGRAPHS AND OTHER COMPLETED WORKS

### 2.03 Reviewed University or Academic Textbook

53. GRABEC, Igor, GRADIŠEK, Janez. *Opis naključnih pojavov.* Ljubljana: Fakulteta za strojništvo, 2000. VIII, 263 str., ilustr. ISBN 961-6238-42-6. [COBISS.SI-ID 108263936]

### 2.08 Doctoral Dissertation

54. GRADIŠEK, Janez. *Raziskave možnosti karakterizacije rezalnega procesa z metodami kaotične dinamike = [Exploring possibilities of cutting process characterization using methods of chaotic dynamics] : doktorsko delo,* (Fakulteta za strojništvo, Ljubljana, Doktorske disertacije, 227, [165]).

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## 2.09 Master's Thesis

55. GRADIŠEK, Janez. *Uporaba metod kaotične dinamike za analizo tehniških procesov = [Application of chaotic dynamics methods to technical processes analysis] : magistrsko delo*, (Fakulteta za strojništvo, Ljubljana, Magistrska dela, 1017). Ljubljana: [J. Gradišek], 1997. 140 f., ilustr., graf. prikazi. [COBISS.SI-ID 2004507]

## 2.11 Undergraduate Thesis

56. GRADIŠEK, Janez. *Raziskave lastnosti kaotičnega rezalnega procesa in možnosti uporabe nevronske mreže pri njegovi kontroli = [Characteristics of chaotic cutting process and application of neural networks to its control] : diplomsko delo*, (Fakulteta za strojništvo, Ljubljana, Diplomske naloge visokošolskega študija, 4298). Ljubljana: [J. Gradišek], 1994. 46 str., graf. prikazi. [COBISS.SI-ID 925723]

## 2.12 Final Research Report

57. GRABEC, Igor, MUŽIČ, Peter, GOVEKAR, Edvard, SUSIČ, Egon, KOKOL, Miran, GRADIŠEK, Janez, POTOČNIK, Primož, KOSEL, Tadej, MANDELJ, Simon, ECIMOVIČ, 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]

58. GRABEC, Igor, MUŽIČ, Peter, GOVEKAR, Edvard, SUSIČ, Egon, KOKOL, Miran, GRADIŠEK, Janez, POTOČNIK, Primož, KOSEL, Tadej, MANDELJ, Simon, ECIMOVIČ, 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]

59. 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]

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[COBISS.SI-ID 5462555]

## 2.25 Other Monographs and Other Completed Works

63. GRADIŠEK, Janez. *Raziskave lastnosti kaotičnega rezalnega procesa in možnosti uporabe nevronskih mrež pri njegovi kontroli = [Characteristics of chaotic cutting process and application of neural networks to its control] : ... Prešernove nagrade študentom za leto 1994 ....* (Univerza v Ljubljani, Prešernove nagrade). Ljubljana: [J. Gradišek], 1994. 43 f., ilustr. [COBISS.SI-ID 1501211]

Request for bibliography sent from: 193.2.111.2 (www.lecad.uni-lj.si)

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