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## Curriculum Vitae

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### Ph.D. Eng. Anna Kamińska-Chuchmała

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#### Personal information:

Date and place of birth : 15th June 1982, Wrocław

Nationality: Polish

Marital status: married since 2008

Additional: non-smoking

#### Education:

10.2010 Ph.D. in Electrical Engineering

2006 - 2010 Ph.D. studies at Wrocław University of Technology  
Faculty of Electrical Engineering  
Institute of Electrical Power Engineering  
Group of Power Networks and Systems

07.2006 M.Sc. in Computer Science

2001 - 2006 M.Sc. studies at Wrocław University of Technology  
Faculty of Fundamental Problems of Technology  
Field of study: Computer Science  
Specialization: Computer Security

1997 - 2001 High School No. 1 in Brzeg

#### Employment History:

since 10.2011 Assistant Professor in Distributed Computer Systems Division at Institute of Informatics (since 12.2014 was transformed into Department of Informatics) at Faculty of Computer Science and Management at Wrocław University of Technology.

10.2010 - 09.2011 Assistant in Distributed Computer Systems Division at Institute of Informatics at Wrocław University of Technology.

- 08.2006 Younger Computer Scientist for the Software Development in Bank BZWBK SA in Wrocław in Department of Application Development in Development and Support Team CBBS. Participation in project for the Department of Central Services.
- 10.2005 - 02.2006 Assistant in The Institute of Mathematics and Computer Science at The Faculty of Fundamental Problems of Technology at Wrocław University of Technology.

### **Research Experience:**

- 11.2014 Receiving Wrocław University of Technology Rector Award in recognition of distinctive contributions to the university in year 2014.
- 10.2014 - 06.2015 Fellowship of research for the 4th edition of the Scholarship for Young Doctors (PostDoc's) Human Capital Operational Programme. The project is co-financed by the European Union under the European Social Fund.
- 06.2014 – 09.2015 Project Leader: „Internet network performance with using geostatistical 3D forecasts” supported by Institute of Informatics at Wrocław University of Technology.
- 04.2014 – 09.2014 Fellowship for the 10th edition of the Scholarship Competition for Human Capital Operational Programme. The project is co-financed by the European Union under the European Social Fund.
- 11.2013 Receiving Wrocław University of Technology Rector Award in recognition of distinctive contributions to the university in year 2013.
- 01-30.09.2013 Fellowship for the 9th edition of the Scholarship Competition for Human Capital Operational Programme. The project is co-financed by the European Union within the European Social Fund.
- 01-30.09.2013 Post-Doc in the Computational Intelligence Group headed by Prof. Manuel Graña in Universidad del Pais Vasco (UPV/EHU), San Sebastian, Spain. Research conducted with group within project funded by the EC, entitled Social and Smart (grant number 317947), project leader is University of Milan, and is carried out by 8 partners across Europe.
- 01-30.09.2013 Fellowship (as a Post-Doc) for the 6th edition of the Scholarship Competition for Human Capital Operational Programme co-financed by European Union within European Social Fund.
- 06.2013 – 09.2014 Project Leader: „Comparing the ability of geostatistical and econometric methods in spatial Web server performance” supported by Institute of Informatics at Wrocław University of Technology.
- 06.2012 - 09.2013 Project Leader: „3D Web Performance forecasting with using geostatistical simulation methods” supported by Institute of Informatics at Wrocław University of Technology.
- 05.2011 - 09.2012 Project Leader: „Methods and algorithms of spatio-temporal forecasting on the Internet” supported by Institute of Informatics at Wrocław University of Technology.
- 2006 - 2010 Ph.D. thesis: „Spatial electric load modeling and forecasting”. Promoter: Prof. Artur Wilczyński. Reviewers: Prof. Jacek Malko from Wrocław University of Technology and Prof. Tomasz Popławski from Czestochowa University of Technology. The doctoral dissertation has been awarded.

- 03.2007 - 12.2007 Participation in research project supported by Ministry of National Education: „Electrical Power Engineering Security of Poland” about „Temporal-Areal Electric Load Forecasting” at Institute of Electrical Power Engineering at Wrocław University of Technology.
- 2005 - 2006 M.Sc. thesis: „NP-complete problems in planning of UMTS networks”. Promoter Ph.D. Maciej Gębala. Reviewer: Prof. Jacek Cichoń from Wrocław University of Technology.
- 2005 - 2006 Participation in Student’s project: DAL for company „Comarch” from Wrocław.
- 2005 - 2007 Co-founder and an active member of Scientific Circle of Psychology and Arts „Expression” at Wrocław University of Technology.

### **Organizational Experience:**

- 09.2015 Member of Program Committee of Workshop on Performance Evaluation of Parallel Applications on Large-Scale Systems to be held in conjunction with the 11th International Conference on Parallel Processing and Applied Mathematics - PPAM 2015.
- 09.2015 Reviewer on Workshop on Performance Evaluation of Parallel Applications on Large-Scale Systems to be held in conjunction with the 11th International Conference on Parallel Processing and Applied Mathematics - PPAM 2015.
- 06.2015 Member of Program Committee of International Conference Software Engineering and Information Technology - SEIT2015.
- since 04.2015 Reviewer of journal - Expert Systems with Applications published by Elsevier in USA.
- since 03.2015 Reviewer of journal - e-Informatica Software Engineering.
- 02.2015 Member of Program Committee of 9th Conference Zarządzanie Energią i Teleinformatyka - ZET2015.
- 09.2014 Reviewer on 35th International Conference Information Systems Architecture and Technology - ISAT2015.
- since 08.2014 Reviewer of journal - International Journal of Neural Systems published by World Scientific Publishing.
- 02.2014 Reviewer on 8th Conference Zarządzanie Energią i Teleinformatyka - ZET2014.
- 02.2014 Member of Program Committee of 8th Conference Zarządzanie Energią i Teleinformatyka - ZET2014.
- 02.2014 Chair in session on 8th Conference Zarządzanie Energią i Teleinformatyka- ZET2014.
- since 01.2014 Reviewer of journal - IEEE Transactions on Industrial Informatics published by IEEE in USA.
- 09.2013 Reviewer on 34th International Conference Information Systems Architecture and Technology - ISAT2013.
- 09.2013 Member of Organizing Committee of 34th International Conference Information Systems Architecture and Technology - ISAT2013.
- since 2013 Member of IEEE (including societies: IEEE Communication, IEEE Industrial Electronics and IEEE Computer).
- since 01.2013 Reviewer of journal Computer Technology and Application (CTA) published by David Publishing Company, USA.

- 09.2012 Chair in session on 33rd International Conference Information Systems Architecture and Technology.
- 09.2011 Member of Organizing Committee of 32nd International Conference Information Systems Architecture and Technology - ISAT2011.

**Educational Experience:**

- 09.2015 Reviewer on 13th Students' Science Conference.
- 09.2015 Member of Program Committee of 13th Students' Science Conference.
- 10.2014 Ph.D. thesis reviewer: „Lattice Computing and Hyperspectral Image Processing for Human Detection and Identification” written by Ion Marqués Bailón from Universidad del Pais Vasco (UPV/EHU) in San Sebastian, Spain.
- 09.2014 Reviewer on 12th Students' Science Conference.
- 09.2014 Member of Program Committee of 12th Students' Science Conference.
- 05.2014 Grant from Lifelong Learning Erasmus Programme for the purpose of teaching at the partner university: Department of Information Engineering at Università di Pisa in Italy. Lectures were conducted in English for Master students at computer science study.
- since 2012 Promoted 13 M.Sc. theses.
- since 10.2010 Teaching courses: „Modeling and Analysis of Web Systems”, „Internet Infrastructure”, „Web Systems”, „Web Systems Programming”, „Embedded and mobile systems”, „Distributed Information Systems”, and „Architecture of Modern Computer Systems and Networks”.
- 2006 - 2010 Teaching courses during the Ph.D. studies: „Computer Science in Electrical Engineering”, „Fundamentals of Computer Science”, and „Information Technologies”.
- 2005 - 2006 Teaching a course during the M.Sc. studies: „Data base Laboratory”.

**Other Experience and Skills:**

- 11.2013 Workshop on „Publish with Wiley in recognized scientific journals” organized by Wiley in collaboration with the European Association of Science Editors.
- 11.2010 Training on basic issues related to the preparation of a proposal for the 7th Framework Programme. Training „Write down in the grant” organized by the Wrocław Centre for Technology Transfer.
- since 10.2010 WebMaster and WWW page Administrator in Distributed Computers Systems Division.
- 2006 - 2010 WebMaster and WWW page Administrator in Group of Power Networks and Systems.
- 04.2008 Completed training for Ph.D. students of Wrocław University of Technology in field of the protection and commercialization of scientific results.
- 02.2006 Completed training for students ”Modern technology in practice. Platform IBM iSeries. Through innovations to your future” at Wrocław University of Technology in cooperation with IBM Poland and Scientific Circle SISK at Wrocław University of Technology.
- 08.1999 Driving license: category B.

## Languages:

Polish	native
English	fluent
French	good
Spanish	basic
Italian	basic
German	basic

## Research interests:

Web systems:	Web performance, distributed web networks, measurement experiments of Internet and WWW (methods, tools, the planning and the realization of measurement concerning topology and traffic).
Forecasting:	spatial 3D (area-time) forecast using geostatistical, econometric and fuzzy methods.
Geostatistics:	simulation methods, estimation methods (kriging), approximation of the variogram.
Biometrics verification:	verification algorithms (especially iris recognition), security of stored patterns (data bases, microprocessor cards), storage patterns in accordance with the law.

## Activities and hobbies:

Sport:	ballroom dancing (category Hobby Start), tennis, aerobics (shape, calanetics, step reebok), mountain trekking, cross-country skiing, skating, bicycle touring, martial arts (Tai Chi), running.
Other:	psychology (cognitive process), books (especially by John Grisham, Dan Brown, and Paulo Coelho), gardening, photography, painting.

## Publications:

1. L. Borzemski, **A. Kamińska-Chuchmała**, *Distributed Web Server's Data Performance Processing with Application of Spatial Econometrics Models*, Advances in Intelligent Systems and Computing, Springer, in review.
2. I. Marqués, M. Graña, D., **A. Kamińska-Chuchmała**, Bruno Apolloni, *An experiment of subconscious intelligent social computing on household appliances*, Neurocomputing, 2015, in press, available online 25 May 2015: <http://dx.doi.org/10.1016/j.neucom.2014.08.103>
3. M. Graña, D. Nuñez-Gonzalez, L. Ozaeta, **A. Kamińska-Chuchmała**, *Experiments of Trust Prediction in Social Networks by Artificial Neural Networks*, Cybernetics and Systems: An International Journal, Vol. 46, Issue 1-2, 2015, pp. 19-34.
4. **A. Kamińska-Chuchmała**, *Research and Analysis of the Network Performance in Data Transmission Aspect*, Rynek Energii No. 1(116), 2015, pp. 104-107, presented at Multiconference Zarządzanie Energią i Teleinformatyka - ZET 2015, Nałęczów, 18-20.02.2015.

5. **A. Kamińska-Chuchmała**, M. Schatt, *Research and measurement of Web servers performance in Internet network using PlanetLab environment*, Information systems architecture and technology: contemporary approaches to design and evaluation of information systems, Oficyna Wydawnicza PWR, Wrocław 2014, pp. 19-28.
6. **A. Kamińska-Chuchmała**, *Spatial Internet traffic load forecasting with using estimation method*, Procedia Computer Science, Elsevier, Vol. 35, 2014, pp. 290-298, presented at 18th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems - KES 2014, Gdynia, 15-17.09.2014.
7. L. Borzowski, **A. Kamińska-Chuchmała**, *The Impact of Network Characteristics on the Accuracy of Spatial Web Performance Forecasts*, Recent Advances in Knowledge-based Paradigms and Applications, Advances in Intelligent Systems and Computing, Springer International Publishing Switzerland, Vol. 234, 2014, pp. 169-179.
8. L. Borzowski, **A. Kamińska-Chuchmała**, *Web Server's Performance Prediction with Using Spatial Econometrics Methods*, Rynek Energii No. 3(112), 2014, pp. 120-124.
9. D. Całus, T. Odzimek, **A. Kamińska-Chuchmała**, *Smart Management of Electrical Energy Consumption*, Zarządzanie energią i teleinformatyka ZET 2014: materials and studies: Henryk Kaproń (ed.), Lublin: Kaprint, 2014, pp. 7-17.
10. **A. Kamińska-Chuchmała**, *Forecast of Internet network loads as a proposition to improving efficiency in communication of smart metering*, Rynek Energii No. 2(111), 2014, pp. 127-131, presented at Multiconference Zarządzanie Energią i Teleinformatyka - ZET 2014, Nałęczów, 19-21.02.2014.
11. **A. Kamińska-Chuchmała**, T. Salwa, *Spatial web server performance prediction with using GSLIB*, Information systems architecture and technology : network architecture and applications, Oficyna Wydawnicza PWR, Wrocław 2013, pp. 153-162.
12. L. Borzowski, **A. Kamińska-Chuchmała**, *Web performance forecasting with kriging method*, Contemporary Challenges and Solutions in Applied Artificial Intelligence Studies in Computational Intelligence, Springer, Vol. 489, 2013, pp. 149-154, presented at The International Science Conference: Industrial, Engineering & other Application of Applied Intelligent Systems ? IEA/AIE 2013, Amsterdam, 17-21.06.2013.
13. L. Borzowski, **A. Kamińska-Chuchmała**, *Web performance forecasting with kriging method*, Contemporary Challenges and Solutions in Applied Artificial Intelligence Studies in Computational Intelligence, Springer, Vol. 489, 2013, pp. 149-154.
14. L. Borzowski, **A. Kamińska-Chuchmała**, *Spatial Econometrics Models in Web Servers Performance*, Communications in Computer and Information Science, Vol. 370, Springer-Verlag Berlin, 2013, pp. 45-54, presented at The International Science Conference: Computer Networks - CN'13, Lwówek Śląski, 17-21.06.2013.
15. L. Borzowski, M. Danielak, **A. Kamińska-Chuchmała**, *Empirical Web Performance Evaluation with MWING System and Turning Bands Method*, Communications in Computer and Information Science, Vol. 370, Springer-Verlag Berlin, 2013, pp. 55-63, presented at The International Science Conference: Computer Networks - CN'13, Lwówek Śląski, 17-21.06.2013.

16. L. Borzowski, **A. Kamińska-Chuchmała**, *Web Performance Forecasting Using Kriging Estimation Method*, Rynek Energii No. 1(104), February 2013, pp. 74-78, presented at Multiconference Zarządzanie Energią i Teleinformatyka - ZET 2013, Nałęczów, 20-22.02.2013.
17. L. Borzowski, **A. Kamińska-Chuchmała**, *Distributed Web Systems Performance Forecasting Using Turning Bands Method*, IEEE Transactions on Industrial Informatics, Vol. 9, Issue 1, 2013, pp. 254-261.
18. L. Borzowski, M. Danielak, **A. Kamińska-Chuchmała**, *Short-Term Spatio-Temporal Forecasts of Web Performance by Means of Turning Bands Method*, Lecture Notes in Artificial Intelligence, Vol. 7654, 2012, pp. 132-141.
19. L. Borzowski, M. Danielak, **A. Kamińska-Chuchmała**, *Comparison of Turning Bands Method and Sequential Gaussian Simulation in Daily Analyses of Web Servers' Performance*, Information Systems Architecture and Technology, Oficyna Wydawnicza PWr, Wrocław 2012, pp. 11-20.
20. L. Borzowski, **A. Kamińska-Chuchmała**, *Knowledge Engineering Relating to Spatial Web Performance Forecasting with Sequential Gaussian Simulation Method*, Advances in Knowledge-Based and Intelligent Information and Engineering Systems. Frontiers in Artificial Intelligence and Applications, Vol. 243, IOS Press Amsterdam, 2012, pp. 1439-1448, presented at 16th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems - KES 2012, San Sebastian, Spain, 10-12.09.2012.
21. **A. Kamińska-Chuchmała**, *Performance of Internet Network Forecast and the Perspective of Application in Smart Metering Communications*, Rynek Energii No. 3(100), June 2012, pp. 39-43.
22. L. Borzowski, **A. Kamińska-Chuchmała**, *Spatio-temporal Web Performance Forecasting with Sequential Gaussian Simulation Method*, Communications in Computer and Information Science, Vol. 291, Springer-Verlag Berlin, 2012, pp. 111-119, presented at The International Science Conference: Computer Networks - CN'12, Szczyrk, 19-23.06.2012.
23. L. Borzowski, **A. Kamińska-Chuchmała**, *Client-Perceived Web Performance Knowledge Discovery through Turning Bands Method*, Cybernetics and Systems: An International Journal, Vol. 43, Issue 4, 2012, pp. 354-368.
24. **A. Kamińska-Chuchmała**, *Comparison of geostatistical simulation methods applied in forecasts of power network and Internet*, Zarządzanie energią i teleinformatyka ZET 2012 : materials and studies : Henryk Kaproń (ed.), Lublin: Kaprint, 2012, pp. 97-105, presented at Multiconference Zarządzanie Energią i Teleinformatyka - ZET 2012, Nałęczów, 15-17.02.2012.
25. L. Borzowski, **A. Kamińska-Chuchmała**, *Spatial Web Performance Forecasting with Sequential Gaussian Simulation Method*, Information Systems Architecture and Technology, Oficyna Wydawnicza PWr, Wrocław 2011, pp. 37-46.

26. L. Borzemski, **A. Kamińska-Chuchmała**, *Knowledge discovery about web performance with geostatistical Turning Bands method*, Lecture Notes in Artificial Intelligence Vol. 6882, 2011, pp. 581-590, presented at 15th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems - KES 2011, Kaiserslautern, Germany, 12-14.09.2011.
27. **A. Kamińska-Chuchmała**, A. Wilczyński, *Comparative analysis of different models of spatial electric loads forecasts*, Rynek Energii No. 4(95), pp. 97-101, presented at International Conference: Forecasting in Electric Power Engineering - PE 2011, Wisła, 14-16.09.2011.
28. L. Borzemski, **A. Kamińska-Chuchmała**, *3D Web Performance Forecasting Using Turning Bands Method*, Communications in Computer and Information Science, Vol. 160, Springer-Verlag Berlin, 2011, pp. 102-113, presented at The International Science Conference: Computer Networks - CN'11, Ustroń, 14-18.06.2011.
29. **A. Kamińska-Chuchmała**, A. Wilczyński, *Spatial electric load forecasting in transmission networks with Sequential Gaussian Simulation method*, Rynek Energii No. 1(92), 35-40, presented at Multiconference Zarządzanie Energią i Teleinformatyka - ZET 2011, Nałęczów, 09-11.02.2011.
30. **A. Kamińska-Chuchmała**, A. Wilczyński, *Analysis of Different Methodological Factors on Accuracy of Spatial Electrical Load Forecast Performed with Turning Bands Method*, Rynek Energii No. 2(87), pp. 54-59, presented at XVI Scientific-Technical Conference Rynek Energii Elektrycznej - REE 2010, Kaziemierz Dolny, 12-15.05.2010.
31. **A. Kamińska-Chuchmała**, A. Wilczyński, *3D electric load forecasting using geostatistical simulation method Turning Bands*, The works of Wrocław Scientific Society, Vol. XVI, series B number 215, Wrocław 2009, pp. 41-48, presented at XVI National Conference The Computer-Aided Scientific Research - KOWBAN 2009, Polanica Zdrój, 28-30.10.2009.
32. **A. Kamińska-Chuchmała**, A. Wilczyński, *Application Simulation Methods to Spatial Electric Load Forecasting*, Rynek Energii No. 1(80), February 2009, pp. 2-9, presented at Multiconference Zarządzanie Energią i Teleinformatyka - ZET 2009, Nałęczów, 25-27.02.2009.
33. **A. Kamińska-Chuchmała**, A. Wilczyński, *Spatial Electric Load Forecasting with Simulation Methods*, Proceedings of VI Scientific-Technical Conference Power Networks in Industry and Power Engineering - SIECI 2008, Szklarska Poręba, 10-12.09.2008, pp. 235-241.