Curriculum Vitae

Petar M. Djurić

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EDUCATION:

• Ph.D., Electrical Engineering University of Rhode Island, United States	1990
• M.S., Electrical Engineering University of Belgrade, Yugoslavia	1986
• B.S., Electrical Engineering University of Belgrade, Yugoslavia	1981
ACADEMIC APPOINTMENTS:	
• Professor Stony Brook University Stony Brook, NY	2001-present
• Associate Professor Stony Brook University Stony Brook, NY	1996-2001
• Director of Undergraduate Studies Department of Electrical and Computer Engineering Stony Brook University	1996-1999
• Assistant Professor Stony Brook University Stony Brook, NY	1990-1996
• Teaching/Research Assistant University of Rhode Island Kingston, RI	1986-1990
• Research Associate Institute of Nuclear Sciences - Vinča University of Belgrade Belgrade, Yugoslavia	1981-1986

AWARDS AND HONORS:

•	Technical Achievement Award, European Association for Signal Processing (EURASIP)	2012
	For contributions to the theory and application of Monte Carlo-based methods to signal processing	
•	Distinguished Lecturer of the Institute of Electrical and Electronics Engineers (IEEE) Signal Processing Society	2008-2009
•	Chair of Excellence of Universidad Carlos III de Madrid-Banco de Santander	2008-2009

• IEEE Signal Processing Magazine Best Paper Award 2007

• Fellow of the IEEE 2006

For contributions to Monte Carlo – based methods for signal processing

• Visiting Professorship 2005

Ministerio de Educación y Ciencia (Education and Science Department) of Spain Universidad Carlos III de Madrid, Madrid and Universidade da Coruña, A Coruña, Spain

• Chercheur invité 2012

University of Nice Nice, France

Toulouse, France

• Visiting Professorship
University of Toulouse

2000, 2002, 2004, 2008, and 2012

• Recipient of two NSF ITR grants

2000 and 2002 1997 - present

• Visiting Fellow Corpus Christi College, University of Cambridge, Cambridge, UK

• IEEE Region 1 Award for New Technical Concepts in Electrical Engineering

• IEEE Region I Award for New Technical Concepts in Electrical Engineering

Citation: "Application of Bayesian statistical modeling to engineering problems"

1996

PUBLICATIONS (350+):

Journal papers published since 2013:

- J-1 Y. Wang and P. M. Djurić, "Social learning in linear networks of heterogeneous agents," Digital Signal Processing (accepted)
- J–2 D. Dardari, P. Closas, and P. M. Djurić, "Indoor tracking: Theory, methods, and technologies," *IEEE Transactions on Vehicular Technology* (accepted)
- J–3 D. Dardari, P. Closas, and P. M. Djurić, "Indoor localization, tracking, and mapping with heterogeneous technologies," Editorial, *IEEE Transactions on Vehicular Technology* (accepted)
- J–4 R. Hostettler and P. M. Djurić, "Vehicle Tracking Based on Magnetometer and Accelerometer Sensor Measurements," *IEEE Transactions on Vehicular Technology* (accepted)
- J-5 M. Bolić, M. Rostamian, and P. M. Djurić, "Proximity detection with RFID: A step toward the Internet of Things," *Pervasive Computing* (accepted)
- J-6 T. Li, M. Bolić, P. M. Djurić, "Resampling methods for particle filtering," Signal Processing Magazine (accepted)
- J-7 A. Bravo and P. M. Djurić, "Cooperative communications with mesh networks of decode-and-forward relays," Transactions on Signal Processing, 63(1), pp. 5-17, 2015
- J–8 K. Dedecius, J. Reichl, and P. M. Djurić, "Sequential estimation of mixtures in diffusion networks," *IEEE Signal Processing Letters*, 2(2), pp. 197-201, 2015
- J-9 S. Dash, J. G. Quirk, and P. M. Djurić, "Fetal heart rate classification using generative models," IEEE Transactions on Biomedical Engineering 61(11), 2796–2805, 2014
- J–10 Z. Weng and P. M. Djurić, "Efficient estimation of linear parameters from correlated node measurements over networks," *IEEE Signal Processing Letters*, 21(11), 1408–1412, 2014.
- J–11 O. Hlinka, F. Hlawatsch, and P. M. Djurić, "Consensus-based distributed particle filtering with distributed proposal adaptation," *Transactions on Signal Processing*, vol. 62(12), pp. 3029–3041, 2014.
- J–12 Z. Weng and P. M. Djurić, "A search-free DOA estimation algorithm for coprime arrays," *Digital Signal Processing*, vol. 24(2014), pp. 27-33, 2014.
- J-13 L. Geng, M. F. Bugallo, A. Athalye, and P. M. Djurić, "Indoor tracking with RFID systems," *IEEE Journal of Selected Topics in Signal Processing*, vol. 8(1), pp. 96-105, 2014.

J–14 D. H. Dini, P. M. Djurić, and D. P. Mandić, "The augmented complex particle filter," *IEEE Transactions on Signal Processing*, vol. 61(17), pp. 4341-4346, 2013.

- J-15 E. Arias-de-Reyna and P. M. Djurić, "Indoor localization with range-based measurements and little prior information," IEEE Sensors Journal, vol. 13(5), pp. 1979-1987, 2013.
- J-16 Y. Wang and P. M. Djurić, "A gossip method for optimal consensus on a binary state from binary actions," *IEEE Journal of Selected Topics in Signal Processing*, vol. 7(2), pp. 274-283, 2013.
- J-17 A. Athalye, V. Savić, M. Bolić, and P. M. Djurić, "A novel semi-passive RFID system for indoor localization," IEEE Sensors Journal, vol. 13(2), pp. 528-537, 2013.
- J-18 J. Míguez, D. Crisan, and P. M. Djurić, "On the use of sequential Monte Carlo methods for maximum a posteriori sequence estimation and stochastic global optimization," *Statistics and Computing*, 23(1), 91-107, 2013.
- J-19 O. Hlinka, F. Hlawatsch, and P. M. Djurić, "Distributed particle filtering in agent networks," IEEE Signal Processing Magazine, vol. 30(1), pp. 61-81, 2013.

Refereed conference papers published since 2013:

- C-1 K. Dedecius and P. M. Djurić, "Diffusion filtration with approximate Bayesian computation," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Brisbane, Australia, 2015.
- C-2 I. Urteaga and P. M. Djurić, "Particle filtering of ARMA processes of unknown order and parameters," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Brisbane, Australia, 2015.
- C-3 Y. Wang and P. M. Djurić, "Bayesian social learning in linear networks of agents with random behavior," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Brisbane, Australia, 2015.
- C-4 L. Geng. M. F. Bugallo and P. M. Djurić, "Real-time self-tracking in the Internet of Things," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Brisbane, Australia, 2015.
- C-5 J. Beaudeau, M. F. Bugallo and P. M. Djurić, "On optimal mobile RSSI-sensor positioning for multi target tracking," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Brisbane, Australia, 2015.
- C-6 M. F. Bugallo and P. M. Djurić, "Multiple particle filtering with improved efficiency and performance," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Brisbane, Australia, 2015.
- C-7 M. Bolić, M. Rostamian, and P. Djurić,, "Proximity detection with RFID in the Internet of Things," Proceedings of the Asilomar Conference on Signals, Systems, and Computers, Asilomar, CA 2014.
- C–8 Z. Weng and P. M. Djurić, "Consensus for continuous belief functions," Proceedings of the European Signal Processing Conference, Lisbon, Portugal, 2014.
- C-9 S. Dash and P. M. Djurić, "On the segmentation of switching autoregressive processes by nonparametric Bayesian methods," *Proceedings of the European Signal Processing Conference*, Lisbon, Portugal, 2014.
- C-10 Y. Wang and P. M. Djurić, "On sequential estimation of linear models from data with correlated noise," Proceedings of the European Signal Processing Conference, Lisbon, Portugal, 2014.
- C–11 M. F. Bugallo and P. M. Djurić, "Gaussian particle filtering in high-dimensional systems," *Proceedings of the IEEE Statistical Signal Processing Workshop*, Gold Coast, Australia, 2014.
- C-12 P. M. Djurić and A. Bravo, "Cooperative mesh networks with EGC detectors," *Proceedings of the IEEE* 8th Sensor Array and Multichannel Signal Processing Workshop, La Coruña, Spain, 2014.
- C-13 Z. Shen and P. M. Djurić, "Distributed Bayesian learning with a Bernoulli model," *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing*, Florence, Italy, 2014.
- C-14 J. Beaudeau, M. F. Bugallo, and P. M. Djurić, "Analysis of the cross-target measurement fusion likelihood for RSSI-based sensors," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Florence, Italy, 2014.

C-15 Y. Wang and P. M. Djurić, "Sequential Bayesian learning in linear networks with random decision making," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Florence, Italy, 2014.

- C-16 M. F. Bugallo and P. M. Djurić, "Particle filtering in high-dimensional systems with Gaussian approximations," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Florence, Italy, 2014.
- C–17 Z. Weng and P. M. Djurić, "Efficient learning by consensus over regular networks," *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Florence, Italy, 2014.*
- C–18 I. Urteaga and P. M. Djurić, "Estimation of ARMA state processes by particle filtering," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Florence, Italy, 2014.
- C–19 P. M. Djurić and M. F. Bugallo, "Particle filtering for high-dimensional systems," *Proceedings of the IEEE Workshop on Computational Advances in Multi-sensor Adaptive Processing*, Saint Martin, 2013.
- C-20 Y. Wang and P. M. Djurić, "Reaching optimal Bayesian belief over networks in the presence of communication noise," Proceedings of Global SIP, Austin, TX, 2013.
- C-21 Y. Wang and P. M. Djurić, "Sequential estimation of linear models in distributed settings," Proceedings of the European Signal Processing Conference, Marrakesh, Morocco, 2013.
- C–22 Z. Weng and P. M. Djurić, "Distributed estimation in the presence of correlated noises," *Proceedings of the European Signal Processing Conference*, Marrakesh, Morocco, 2013.
- C-23 J. Beaudeau, M. F. Bugallo, and P. M. Djurić, "A mobile system for non-centralized target tracking in presence of dynamic interferences," *Proceedings of the European Signal Processing Conference*, Marrakesh, Morocco, 2013.
- C-24 Y. Wang and P. M. Djurić, "Reaching Bayesian consensus in cognitive systems by decision exchanges," *Proceedings of the European Signal Processing Conference*, Marrakesh, Morocco, 2013.
- C-25 L. Geng, M. F. Bugallo, and P. M. Djurić, "Tracking with asynchronous binary readings and layout information in RFID systems with sense-a-tags," Proceedings of the European Signal Processing Conference, Marrakesh, Morocco, 2013.
- C-26 Z. Weng and P. M. Djurić, "Data fusion based on convex optimization," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Vancouver, Canada, 2013.
- C-27 P. M. Djurić and A. Ferrari, "Models with products of Dirichlet processes," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Vancouver, Canada, 2013.
- C-28 D. E. Johnston, I. Urteaga, and P. M. Djurić, "Replication and optimization of hedge fund risk factor exposures," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Vancouver, Canada, 2013.
- C-29 L. Geng, M. F. Bugallo and P. M. Djurić, "Tracking with RFID asynchronous measurements by particle filtering," Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Vancouver, Canada, 2013.

PROFESSIONAL ACTIVITIES AND AFFILIATIONS (since 2013):

• Editor-in-Chief of the IEEE Transactions on Signal and Information Processing over Networks	2015
• Member of the Publication Board of the IEEE Signal Processing Society	2015 – 2017
• General Co-Chair of the IEEE Workshop on Computational Advances in Multi-sensor Adaptive Processing, Cancun, Mexico	2015
• Member of the Awards Committee of the Network of Excellence in Wireless Communications (project funded under the umbrella of the 7th Framework Program of the European Commission)	2015
• Guest Editor of a special issue on "Indoor localization, tracking, and mapping with heterogeneous technologies" for the <i>IEEE Transactions on Vehicular Technology</i>	2015

• Organizer of a special session on wireless localization, Asilomar Conference on Signals, Systems, and Computers, Asilomar, CA	2015
Member of the IEEE Signal Processing Society Nominations and Appointments Committee	2014 - 2015
• Treasurer of the IEEE International Conference on Acoustics, Speech, and Signal Processing, Florence, Italy	2014
• Co-chair of a special issue on "Indoor localization, tracking, and mapping with heterogeneous technologies" for the <i>IEEE Transactions on Vehicular Technology</i>	2014
• Co-organizer of a special session on "Bayesian nonparametrics for signal processing" for the <i>IEEE Workshop on Machine Learning for Signal Processing</i> , Reims France	2014
• Chair of a special session on "Wireless localization" for the Asilomar Conference on Signals, Systems, and Computers	2014
\bullet Member of Technical Program Committee of $EUSIPCO,$ Lisbon, Portugal	2014
\bullet Member of Technical Program Committee of the IEEE GLOBECOM, Austin, TX	2014
• Organizer of a special session on "Advances in Monte Carlo Methods for Signal Processing," <i>IEEE Workshop on Computational Advances in Multi-sensor Adaptive Processing</i> , Saint Martin	2013
\bullet Member of the Awards Committee of the European Network of Excellence	2013
• Organizer of a special session on "Diffusion of Information over Multi-Agent Networks," the European Signal Processing Conference, Marrakesh, Morocco, 2013	2013
\bullet Member-at-Large of the Board of Governors of the IEEE Signal Processing Society	2011-2013