

Kamil Wójcicki, BInfTech, BEng (Hons)

CONTACT INFORMATION

Signal Processing Laboratory
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RESEARCH INTERESTS

Speech processing, speech enhancement, speech and speaker recognition, speech perception, machine learning and pattern recognition.

EDUCATION

Griffith University, Nathan, Queensland, Australia

Doctor of Philosophy in Electrical Engineering

February 2005 – August 2010

- Topic: Role of the short-time phase spectrum in speech processing.
- Advisors: Prof Kuldip Paliwal and Dr Stephen So

Bachelor of Information Technology,

February 2000 – April 2005

Bachelor of Engineering in Microelectronic Engineering (Hons)

- Majors: Computing Science, Computer Systems

HONOURS AND AWARDS

Best Paper Award, Griffith School of Engineering Research Conference, Nathan, 2007

Australian Research Council (ARC) Postgraduate Research Scholarship, Nathan, 2005-2010

Scholarship for Outstanding Academic Achievement, Griffith University, Nathan, 2000

National Mathematics Summer School, The Australian National University, Canberra, 1999, 2000

Certificate of Excellence for Outstanding Academic Achievement, University of Tasmania, 1999

Award for Best Design, Electronics Competition, The Electronics Educators Association, 1998

SELECTED PUBLICATIONS

Paliwal, K.K., Schwerin, B. and K.K. Wójcicki, "Role of modulation magnitude and phase spectrum towards speech intelligibility", *Speech Communication*, 2010. (Under peer review.)

Paliwal, K.K., Wójcicki, K.K. and B.J. Shannon, "The importance of phase in speech enhancement", *Speech Communication*, 2010. (Under peer review.)

Paliwal, K.K., Wójcicki, K.K. and B. Schwerin, "Single-channel speech enhancement using spectral subtraction in the short-time modulation domain", *Speech Communication*, Vol. 52(5), pp. 450–475, May 2010.

Paliwal, K.K., Schwerin, B. and K.K. Wójcicki, "Modulation domain spectral subtraction for speech enhancement", In *Proc. INTERSPEECH*, Brighton, U.K., pp. 1327–1330, Sep. 2009.

So, S., Wójcicki, K.K., Lyons, J.G., Stark, A.P. and K.K. Paliwal, "Kalman filter with phase spectrum compensation algorithm for speech enhancement". In *Proc. ICASSP*, Taipei, Taiwan, pp. 4405–4408, Apr. 2009.

Paliwal, K.K., Shannon, B.J., Lyons, J.G. and K.K. Wójcicki, "Speech-signal-based frequency warping", *IEEE Signal Process. Lett.*, Vol. 16, No. 4, pp. 319–322, Apr. 2009.

Paliwal, K.K. and K.K. Wójcicki, "Effect of analysis window duration on speech intelligibility", *IEEE Signal Process. Lett.*, Vol. 15, pp. 785–788, 2008.

Stark, A.P., Wójcicki, K.K., Lyons, J.G. and K.K. Paliwal, "Noise driven short time phase spectrum compensation procedure for speech enhancement", In *Proc. INTERSPEECH*, Brisbane, Australia, pp. 549–552, Sep. 2008.

Wójcicki, K.K., Milacic, M., Stark, A.P., Lyons, J.G. and K.K. Paliwal, "Exploiting conjugate symmetry of the short-time Fourier spectrum for speech enhancement", *IEEE Signal Process. Lett.*, Vol. 15, pp. 461–464, 2008.

Wójcicki, K.K. and K.K. Paliwal, "Importance of the dynamic range of an analysis window function for phase-only and magnitude-only reconstruction of speech", In *Proc. ICASSP*, Honolulu, Hawaii, USA, Vol. IV, pp. 729–733, Apr. 2007.

PROFESSIONAL MEMBERSHIPS

International Speech Communication Association (ISCA)
Institute of Electrical and Electronics Engineers (IEEE)

PROFESSIONAL
EXPERIENCE

Qibt Navitas, Mount Gravatt, Queensland, Australia

Lecturer

June 2009 – June 2010

Lecturer for undergraduate courses in mathematics and computer science.

Griffith University, Nathan, Queensland, Australia

Teaching Assistant

February 2005 – June 2010

Teaching assistant for undergraduate courses in electrical engineering, including:

- Signals and Systems
- Digital Signal Processing
- Statistical Signal Processing
- Unix Systems
- Introduction to Programming with Matlab

Chief Invigilator

June 2010 – June 2010

Chief invigilator for Griffith University examinations.

Assistant Invigilator

February 2005 – June 2010

Assistant invigilator for undergraduate and graduate examinations.

Hewlett Packard, Milton, Queensland, Australia

Server Specialist

March 2008 – present

Enterprise data center deployments, relocation and servicing for clients such as V Australia, Cement Australia, Gold Coast City Council, Optus, Queensland Health, Queensland Investment Corporation (QIC), Queensland Ombudsman's Office and Bain Gasteen Lawyers.

Field Services Engineer

June 2004 – present

Workstation deployments for clients such as AMCOR, Blake Dawson Waldron, Commonwealth Bank, Bank of Queensland, Pindara Private Hospital and others.

Fujitsu Australia, Newstead, Queensland, Australia

Field Services Engineer

April 2002 – December 2003

Point-of-sale deployments for various clients, including Queensland Transport, Coles, Woolworths and Commonwealth Bank business centres.

PROGRAMMING

Matlab, C, C++, Linux shell scripting, L^AT_EX 2_ε, Perl, Java, .NET, SQL, PHP

LANGUAGES

English, Polish

HOBBIES

Travel, photography, skiing, fitness

REFEREES

Prof Kuldip Paliwal

Professor

Griffith University

Nathan, Queensland, Australia

phone: *available on request*

e-mail: *available on request*

Dr Stephen So

Associate Lecturer

Griffith University

Gold Coast, Queensland, Australia

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e-mail: *available on request*

Dr Conrad Sanderson

Researcher

National ICT Australia

St Lucia, Queensland, Australia

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Mr Sean Loye

Systems Engineer

Hewlett Packard

Milton, Queensland, Australia

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