

December 2006

# Ulrich Dieter Friedrich Nehmzow

Dipl.Ing.(Univ.) PhD CEng MIET

## Research Collaboration

### 1 Visiting Appointments

- 10/03 - 12/03 Visiting Fellow, University of Wollongong.  
 6/99 - 7/99 Visiting Research Scientist, University of Bremen, Germany.  
 1/98 - 8/98 Royal Society/STA Fellow, Electrotechnical Laboratory, Tsukuba, Japan.  
 6/97 - 9/97 Visiting research scientist, University of Bremen, Germany (Robotics Group).  
 6/96 - 8/96 Visiting research scientist, Carnegie Mellon University, Pittsburgh USA.

### 2 Keynote Addresses

The following list contains keynote addresses given by invitation

- 7/06 Invited keynote speaker, euCognition, Vienna 3rd July 2006.  
 7/03 Invited keynote speaker, RoboCup symposium, Padua 2003.  
 4/01 Invited speaker, International AI Symposium in memory of Sidney Michaelson, University of Edinburgh 7 April 2001.  
 1/01 Invited keynote speaker, Symposium organised by the German Research Council on spatial cognition, Hamburg.  
 1/01 Invited keynote speaker, University of the Armed Forces, Munich.  
 11/00 Invited keynote speaker, University of Hamburg  
 7/00 Invited Keynote Speaker, 8th International Symposium on Intelligent Robotic Systems, SIRS 2000, Reading, July 2000.  
 3/00 Keynote presentation, Cheshire County Council Annual Conference for Heads of Science, Southport, March 2000.  
 11/99 Invited speaker and organiser of a workshop during the 16th German National Mobile Robotics Conference (AMS 99), Munich.  
 10/99 Invited speaker, 6th International Slovenian Science Festival, Ljubljana.  
 6/99 Biannual conference on Applications in AI, Northwest Artificial Intelligence Applications Group, Blackburn.  
 9/98 Workshop on future trends in life and business, Wrexham, "The potential of autonomous mobile robots".  
 9/98 Sir Robert Cowen Memorial Lecture, "Robotics Research in the Land of the Rising Sun", Orkney Science Festival (keynote address).  
 9/95 John D. MacKay memorial lecture, Orkney Science Festival.

### 3 Invited Seminars and Invited Lectures

\* indicates "by invitation".

- 10/06 Seminar on robot navigation, Schloss Dagstuhl, Germany. By invitation only  
 6/06 \*Seminar, University of Edinburgh  
 5/06 \*Seminar, University of Frankfurt.  
 11/05 \*Seminar, University of Sheffield.

- 4/05 \*Seminar, University of Birmingham.
- 12/04 \*Seminar, University of Palermo.
- 5/04 \*Seminar, University of Aalborg at Esbjerg.
- 2/04 \*Seminar, University of Plymouth.
- 12/03 Seminar, University of Sydney
- 12/03 \*Seminar, Australian National University, Canberra
- 11/03 \*Seminar, University of Wollongong
- 3/03 \*Seminar, Imperial College London
- 3/03 \*Seminar, University of Wollongong, Australia.
- 2/03 \*Seminar, University of Waikato, New Zealand
- 2/03 \*Invited speaker, Intl. Workshop on Cognitive Models of Navigation, Auckland, New Zealand.
- 2/03 \*Seminar, University of Otago, New Zealand
- 2/03 \*Invited Lecture, International Conference on Cognitive Robotics and Navigation (by invitation only), Auckland NZ.
- 4/02 \*Seminar, Interdepartmental Centre for Knowledge Technology, University of Palermo
- 5/00 \*Seminar, Department of Computer Science, Southampton University, May 2000.
- 2/00 \*Seminar, Department of Computer Science, Exeter University.
- 4/99 \*International workshop "Navigation in Biological and Artificial Systems", Max Planck Institut für biologische Kybernetik, Tübingen.
- 9/98 \*Orkney Science Festival, invited lecture, "Virtual Coordinates for Robot Navigation", Kirkwall 1998.
- 8/98 \* Kobe University, "Principles of Navigation in Behaviour-Based Mobile Robotics.
- 7/98 \*Nara Institute of Science and Technology. Three lectures, on machine learning in robots, robot navigation, and global spatial reasoning in mobile robots.
- 3/98 Real World Computing Workshop, Tsukuba, "Quantitative evaluation of mobile robot mapbuilding through self-organisation".
- 2/98 Electrotechnical Laboratory, Tsukuba, "Mobile robot navigation by means of landmark identification through self-organisation.
- 2/98 Sony Computer Science Laboratory, Tokyo (seminar).
- 11/97 \*University of Reading (seminar), "Navigation strategies for mobile robots".
- 11/97 \*University of Salford (seminar).
- 11/96 \*University of Essex (seminar).
- 11/96 \*University of Sheffield (seminar).
- 9/96 \*University of Bremen: Navigation Strategies for Autonomous Mobile Robots (invited lecture).
- 5/96 \*Plymouth University (seminar).
- 3/96 \*De Montfort University, Leicester (seminar).
- 9/95 \*Manchester Summer School in Robotics, Orkney Science Festival.
- 11/94 Invited seminar speaker, University of Zurich, Institute for Informatics (Prof. Rolf Pfeifer).
- 11/94 \*Invited seminar speaker, Joint Research Centre of the European Communities, Ispra, Italy (Dr Jose Millan).
- 11/94 \*Invited seminar speaker, University of Bremen, Graduiertenkolleg "Raumorientierung und Handlungsorganisation Autonomer Systeme" (Prof. B. Krieg-Brückner).
- 9/94 \*Invited speaker at symposium on "Practical Application of Neural Networks in Control", The Institute of Measurement and Control, London.
- 9/94 \*Several "Masterclasses" and lectures at the Orkney Science Festival, Kirkwall.
- 5/94 \*Keynote speaker at Telford Cybernetics Research Seminar Programme, University of Salford
- 5/94 \*Conference on "Prerational Intelligence in Robotics: From Sensorimotor Intelligence to Collective Behaviour", held at Bielefeld University's centre for interdisciplinary research.
- 5/94 \*Lecture as part of a series of "advanced seminars" at the Technical University of Cottbus, Germany.

10/93	*University of Kiel, Department of Computer Science.
9/93	*Orkney Science Festival, Kirkwall.
7/93	*“Acquisition of Sensor-Motor Couplings in Mobile Robots”, Department of Computer Science, Manchester University.
6/93	*“Use of Artificial Neural Networks in Robot Control” and “Ant-like Navigation in Mobile Robots”, Cumbria Science Festival, Penrith.
4/93	*“Navigation in Animals, Humans and Robots”, Bremen University.
3/92	*“Ortserkennung und Lernen in Robotern”, Forschungsinstitut für anwendungsorientierte Wissensverarbeitung (FAW), Ulm.
2/92	*“Lernfähige Roboter”, Hahn Meitner Institut, Berlin.
9/91	*“Neural Networks”, Caithness Science Festival, Thurso.
6/91	*“Connectionist Computing in Robotics”, Edinburgh Summer School in Computing”.
3/91	*“Autonome selbstorganisierende Roboter”, The University of Bremen.

## 4 Research Collaboration

- Professor Keith Walker, Point Loma Nazarene University, San Diego USA. Collaboration since 1998 on quantitative measures of robot behaviour and chaos theory.
- Professor Roberto Iglesias, University of Santiago de Compostela. Collaboration since 2004 on scientific methods in mobile robotics. Extended research stays in Essex in 2004 (6 months), 2005 (6 months) and 2006 (3 months)
- Professor Antonio Chella and Professor Rosario Sorbello, University of Palermo. Collaboration since 2004 on scientific methods in mobile robotics.
- Professor Phillip McKerrow, University of Wollongong, Australia. Collaboration since 2003 on mobile robotics. Research stay in Essex scheduled for 2006 (3 months).
- Professors Wolfgang and Roswitha Wiltchko, University of Frankfurt/Main. Collaboration since 1993 on simulation of pigeon navigation and computational models of agent behaviour.