

## Curriculum Vitae Pr. Vu Duong

### **I. Research Activities:**

From 1986 to 1990: Research Engineer at Framentec S.A., a joint venture specialized in Artificial Intelligence between Framatome and Tecknowledge Inc., a company issued from Stanford Research Institute (SRI International).

- Research interests: Automatic reasoning and computer vision (conceptual processing of image sequences) applied to autonomous robots and scene interpretation systems.
- 16 publications in international conferences and professional journals.

From 1990 to 1995: Research Scientist then Senior Research Scientist at Schlumberger Laboratory for Computer Science (also known as Schlumberger Palo Alto Research and Fairchild Laboratory for Artificial Intelligence Research).

- Research interests: Computer vision and physics-based modeling of data visualization in petroleum exploration (seismic interpretation, reservoir modeling, borehole drilling, etc.)
- 8 publications in international conferences, 2 US invention patents on X-ray based security-scanning devices.

From 1995 to 2006: Senior Research Scientist then Research Director (in 2000, *eq.* Tenure Professor), head of Innovative Research Department at the Experimental Center of the European Organization for the Safety of Air Navigation (EUROCONTROL).

- Research interests: Applications of artificial intelligence on Air Transportation; Development of Air Traffic Management fundamentals from a complex system modeling approach.
- More than 100 publications in international conferences and journals.

From 2006 – present: EEC Fellow, Senior Scientific Advisor, responsible for all scientific research activities at EUROCONTROL Experimental Center (250 researchers).

### **II. Academic Activities:**

- Invited Lecturer (1997-1999) then Adjunct Professor of Computer Science (1999-2004) at *Institut Francophone d'Informatique*, Hanoi, Vietnam.
- Adjunct Professor (2002-2004) then Affiliate Professor of Computer Science and Engineering (since 2005) at *Ho Chi Minh City University of Technology*, Vietnam National University.
- Research Professor, Co-Director European Joint Research Lab on *Complex System Modeling & Cognition* (CSMC) at *Ecole Pratique des Hautes Etudes* (EPHE) since 2003. Tenure *Chargé de Seminaires (hon.)* in progress (2007).
- Invited Professor (2004-2006) then Academic Advisor, University of Natural Sciences, Vietnam National University at Ho Chi Minh City since December 2006.
- Have supervised and co-supervised more than 25 PhD theses.

### **III. Scientific Activities:**

- Member of the Board, Ecole Doctorale Aéronautique et Astronautique, Toulouse, France since 2005.
- Member of Examination Board, University of Zilina (Slovakia) since 2002, and Technical University of Dresden (Germany) since 2006.
- Technical Area Coordinator, European Aeronautic Scientific Network of Aeronautic Universities since 2002.

### **IV. Conference Activities:**

- Invited Lectures at MIT, Dept. Aeronautics and Astronautics (2000), Linköping University (2001), University California at Berkeley (2002, 2003).
- Invited Speakers and/or member of PC of more than 30 international conferences in Aeronautics and Computer Science since 1990.
- Program Chair of 1<sup>st</sup> and 2<sup>nd</sup> International Conference on Research in Air Transportation (ICRAT); Program Chair of IEEE-RIVF International Conferences on Information and Communication Technologies since 2003;

### **IV. Background Education:**

Ecole Nationale des Ponts et Chaussées (Paris, France):

- Master in Engineering, 1986
- PhD in Artificial Intelligence, 1990. Thesis on the development of formalism for  $n$ -ary Constraint Satisfaction Problem (CSP) and its application to the design and qualitative simulations in engineering.