

Anh Vu NGUYEN-NGOC

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RESEARCH INTERESTS

Human-Computer Interaction (HCI), Usability Engineering, Technology-Enhanced Learning (TEL), Social software, Online communities

EDUCATION

- Docteur ès Sciences (PhD) in Computer Science, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland 2006
- Bachelor of Science in Computer Science, Ho Chi Minh City University of Natural Sciences, Vietnam 1997

Certificate: PRINCE 2 Foundation certified (PRINCE2 is the UK *de facto* standard for project management developed by the Government)

PROFESSIONAL POSITIONS

- Research Associate, Department of Computer Science, University of Leicester, United Kingdom 2006- ...
- Research Assistant, Institute for Systems Engineering, School of Engineering, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland 2001-2006
- Graduate student, Pre-doctoral school in Communications, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland 2000-2001
- Research Intern, Institute for Computer Communications and Applications, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland 1999-2000
- Research and Teaching Assistant, Department of Computer Science, Ho Chi Minh City University of Natural Sciences, Vietnam 1997-1999

AWARDS AND HONOURS

- Outstanding Paper Award, World Conference on Multimedia, Hypermedia & Telecommunications (ED-MEDIA) 2004
- Swiss federal scholarship to attend the Pre-doctoral School in Communication Systems, EPFL, Switzerland 2000-2001
- Swiss federal scholarship to work as internship student at the Institute for Computer Communications and Applications (ICA), EPFL, Switzerland 1999-2000
- Scholarship from Sanwa bank, Japan, for outstanding academic performance at the Ho Chi Minh City University of Natural Sciences, Vietnam, 1995-1997
- Award from the Rector of the Ho Chi Minh City University of Natural Sciences for the best students of academic year (93-97) 1993-1997
- Full scholarship from the Vietnamese Ministry of Education and Training for undergraduate study at the Ho Chi Minh City University of Natural Sciences

RESEARCH PROJECTS PARTICIPATED

- ICOPER (a 'Best Practice Network project' funded by the European Commission under the 7th EU framework programme) *2008-2010*
- iCamp (funded by the European Commission under the Information Society Technology programme of the 6th EU framework programme for Research and Technological Development) *2006-2008*
- iPRACTIS (funded by the CyberLearn e-Learning center, University of Applied Sciences Western Switzerland (HES-SO), Switzerland) *2006*
- ProLEARN (a 'Network of Excellence project' funded by the Information Society Technology program of the European Commission dealing with technology enhanced professional learning) *2004-2006*
- eMersion, Mentors e-Learning projects (funded by the Board of the Swiss Federal Institutes of Technology in the framework of its New Learning Technologies program, and the State of Wallis, Switzerland) *2001-2004*
- Knoware (funded by Institute for Computer Communications and Applications, Ecole Polytechnique Fédérale de Lausanne) *1999-2000*
- Different projects in developing Web-based learning environments *1997-1999*

RESEARCH PROPOSAL PENDING

- Active Senior Explorers (ASE) – Multiplayer Adaptive Serious Games for Elderly. Submitted to the Technology Strategy Board (TSB) & Economic and Social Research Council (ESRC), United Kingdom *2010*

TEACHING EXPERIENCE

University of Leicester, United Kingdom

- Lecturer (taught several lectures) *Autumn 2008, 2009*
CO1094: Computers and Society. Undergraduate course in Computer Science
- Lecturer *Autumn 2007*
CO7213: Networking and Distributed Computing (with Prof. Thomas Erlebach). Masters course in Computer Science

Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland

- Supervised several student masters and semester projects on designing and developing Web-based collaborative learning environments
- Laboratory assistant: Supervised students during their hands-on sessions (both online and face-to-face) in the automatic control laboratory courses offered by the School of Engineering *Semesters 2002-2005*

Ho Chi Minh City University of Natural Sciences, Vietnam

- Lecturer *1998*
Pascal programming
- Teaching assistant *1997-1999*
Pascal programming, C programming, Windows programming (Borland C for Windows), Novell Netware management, Fundamental of computer networking, and Advanced computer networking (OSI theory) courses
- Supervised several student diploma projects

PERSONAL

- Born: 15th September 1975
- Languages: Vietnamese, English, French

PUBLICATIONS

Book chapters

- [1] **Nguyen-Ngoc, A.V.**, Rekik, Y., Gillet, D. Iterative design and evaluation of a Web-based experimentation environment. In N. Lambropoulos & P. Zaphiris (Eds.), *User-centered design of online learning communities*. Hershey, Pennsylvania, USA: Idea Group Inc., 2006
- [2] **Nguyen-Ngoc, A.V.**, Gillet, D., Sire, S., Evaluation of a Web-based learning environment for hands-on experimentation. In W. Aung, R. Altenkirch, T. Cermak, R. W. King & L. M. S. Ruiz (Eds.), *Innovations 2004: World innovations in engineering education and research* (pp. 303-315). New York, USA: iNEER in cooperation with Begell House Publishing, 2004

Journal and magazine papers

- [1] Law, E. L.-C., **Nguyen-Ngoc, A.V.**, Analysis Cross-cultural online collaborative learning with Social software. *Interactive Technology and Smart Education (accepted)*
- [2] Law, E. L.-C., **Nguyen-Ngoc, A.V.**, Analysis of Online Facilitators Social Relations and Facilitating Styles in Cross-cultural Computer-Supported Collaborative Learning. *International Journal on Technology, Instruction, Cognition and Learning (TICL)*, OCP Inc., Vol. 6, No. 4, 2009, pp. 315-332
- [3] Gillet, D., **Nguyen-Ngoc, A.V.**, Rekik, Y. Collaborative Web-based Experimentation in Flexible Engineering Education. *IEEE Transactions on Education, Special issue on Web-based Instruction*, Vol. 48, No. 4, 2005, pp. 696-704
- [4] Fakas, G., **Nguyen-Ngoc, A.V.**, Gillet, D., The Electronic Journal: A Collaborative and Co-operative Learning Environment for Web-based Experimentation. *Computer Supported Cooperative Work (CSCW): The Journal of Collaborative Computing*, Kluwer Academic Publishers, Vol. 14, No. 3, June 2005, pp. 189-216
- [5] **Nguyen-Ngoc, A.V.**, Gillet, D., Sire, S., Sustaining collaboration within a learning community in flexible engineering education. *AACE Journal (International Forum on Information Technology in Education)*, Vol. 12, Issue 4, 2004
- [6] **Nguyen-Ngoc, A.V.**, Gillet, D., Web-based Collaboration in flexible engineering education. *ACM SIGGROUP Bulletin, Special issue on community-based learning: explorations into theoretical groundings, empirical findings and computer support, Student research projects session*, Vol. 24, Issue 3, 2003, pp. 117-128
- [7] Gillet, D., Geoffroy, F., Zeramardini, K., **Nguyen-Ngoc, A.V.**, Rekik, Y., Piguet, Y., The Cockpit: An effective metaphor for Web-based experimentation in engineering education. *International Journal of Engineering Education (IJEE), Special issue on Remote Access/Distant Learning Laboratories*. Vol. 19, No. 3, 2003, pp. 389-397

Conference and workshop papers

- [1] Le Dinh, T., **Nguyen-Ngoc, A.V.**, A conceptual framework for designing service-oriented inter-organizational information systems, In Proceedings of the Symposium on Information and Communication Technology, Hanoi, Vietnam, ACM, August 27-28, 2010
- [2] **Nguyen-Ngoc, A.V.**, Law, E. L.-C., Towards a Structural Model for Variables in Online Cross-cultural Collaborative Learning Environments. In Proceedings of the World

Conference on Educational Multimedia, Hypermedia and Telecommunications (ED-MEDIA 2010), Toronto, Canada, June 28 – July 02, 2010

- [3] **Nguyen-Ngoc, A.V.**, Law, E. L.-C., *Analysis of Weblog-based facilitation of a fully online Cross-cultural collaborative learning course*. In Proceedings of the European Conference on Technology Enhanced Learning (EC-TEL 2009), Springer Lecture Notes in Computer Science, Nice, France, September 29 – October 02, 2009
- [4] Law, E.L.-C, Muller, D., **Nguyen-Ngoc, A.V.** (equally contributing authors), *Differentiating and Defining Portlets and Widgets: A survey approach*. 2nd Workshop on Mash-Up Personal Learning Environments (MUPPLE-09), Nice, France, September 29, 2009
- [5] **Nguyen-Ngoc, A.V.**, Law, E. L.-C., *Challenges for blog analysis and possible solutions*. In Proceedings of the International Conference on Web-based learning (ICWL 2009), Springer Lecture Notes in Computer Science, Aachen, Germany, October 19-21, 2009
- [6] **Nguyen-Ngoc, A.V.**, Law, E. L.-C., *Challenges of validating the multifaceted fully online cross-national CSCW environments*. Workshop on Where are we now and what are the challenges?, in conjunction with the ACM Conference on Computer Supported Cooperative Work (CSCW 2008), San Diego, USA, November 8-12, 2008
- [7] Law, E. L.-C., **Nguyen-Ngoc, A.V.**, *Case studies of fully online intercultural collaborative learning*. In Proceedings of the International Conference on Cognition and Exploratory Learning in Digital Age (CELDA 2008), Freiburg, Germany, October 13-15, 2008
- [8] Law, E. L.-C., **Nguyen-Ngoc, A.V.**, *Fostering Self-directed Learning with Social Software: Reality Checks with Sociograms and Content Analysis*. In Proceedings of the 3rd European Conference on Technology Enhanced Learning (EC-TEL 2008), Springer Lecture Notes in Computer Science, Maastricht, The Netherlands, September 17-19, 2008
- [9] **Nguyen-Ngoc, A.V.**, Law, E. L.-C., *Perceived usability of Social software enabling self-directed Learning*. In Proceedings of the World Conference on Educational Multimedia, Hypermedia and Telecommunications (ED-MEDIA 2008), Vienna, Austria, June 30-July 04, 2008
- [10] Law, E.L.-C., **Nguyen-Ngoc, A.V.**, *Analysis of Cross-cultural online collaborative facilitation*. In Proceedings of the International Conference on Cognition and Exploratory Learning in Digital Age (CELDA 2007), Algarve, Portugal, December 7-9, 2007
- [11] Law, E.L.-C., **Nguyen-Ngoc, A.V.**, Kuru, S. *Mixed-Method Validation of Pedagogical Concepts for an Intercultural Online Learning Environment: A Case Study*. In Proceedings of the ACM Conference on Supporting Group Work (GROUP 2007), Sanibel Island, Florida, USA, November 4-7, 2007
- [12] **Nguyen-Ngoc, A.V.**, *Activity Theoretical analysis and design model for Web-based experimentation*. In Proceedings of the International Conference on Human-Computer Interaction, Springer-Verlag Lecture Notes in Computer Science, Beijing, P.R. China, July 22-27, 2007
- [13] **Nguyen-Ngoc, A.V.**, Law, E. L.-C., *Evaluation of Cross-cultural Computer-Supported Collaborative Learning: Preliminary Findings for iCamp Challenges*. In Proceedings of the 19th AACE World Conference on Educational Multimedia, Hypermedia and Telecommunications (ED-MEDIA 2007), Vancouver, Canada, June 25-29, 2007
- [14] **Nguyen-Ngoc, A.V.**, *Awareness in Web-based experimentation*. Workshop on Activity-centre groupware design, in conjunction with the ACM Conference on Computer Supported Cooperative Work (CSCW 2006), Banff, Canada, November, 2006

- [15] Rekik, Y., Gillet, D., **Nguyen-Ngoc, A.V.**, Guillaume-Gentil, T., *Framework for sustaining collaboration in laboratory-oriented communities of practice*. In Proceedings of the International Conference on Information Technology based Higher Education and Training (ITHET 2006), Sydney, Australia, July 10-13, 2006
- [16] **Nguyen-Ngoc, A.V.**, Rekik, Y., Gillet, D. *A framework for sustaining the continuity of interaction in Web-based learning environment for engineering education*. In Proceedings of the 17th AACE World Conference on Educational Multimedia, Hypermedia & Telecommunications (ED-MEDIA 2005), Montreal, Canada, June 27-July 02, 2005
- [17] **Nguyen-Ngoc, A.V.**, Rekik, Y., Gillet, D. *Formal assessment of a Web-based learning environment*. In Proceedings of the International Conference on Engineering Education and Research (iCEER 2005), Tainan, Taiwan, March 01-05, 2005
- [18] **Nguyen-Ngoc, A.V.**, Gillet, D., Sire, S. *Sustaining collaboration within a learning community in flexible engineering education*. In Proceedings of the 16th AACE World Conference on Educational Multimedia, Hypermedia & Telecommunications (ED-MEDIA 2004), Lugano, Switzerland, June 21-26, 2004 (**Outstanding Paper Award**)
- [19] **Nguyen-Ngoc, A.V.**, Gillet, D., Rekik, Y., Sire, S. *Sustaining the continuity of interaction in Web-based Experimentation for Engineering Education*. In Proceedings of the International Conference on Computer Aided Learning in Engineering Education (CALIE'04), Grenoble, France, February 16-18, 2004
- [20] Sire, S., **Nguyen-Ngoc, A.V.**, Gillet, D. *Evaluation of a Web-based Training Environment for Hands-on Experimentation*. In Proceedings of the iNEER International Conference on Engineering Education (ICEE 2003), Valencia, Spain, July 21-25, 2003
- [21] **Nguyen-Ngoc, A.V.**, *eJournal- une métaphore pour soutenir la collaboration dans un environnement d'apprentissage flexible basé sur le Web*. Doctoral Colloquium. In Annex of the Proceedings of the International Conference on Environnements Informatiques pour l'Apprentissage Humain (EIAH 2003), Strasbourg, France, April 15-17, 2003
- [22] Tran, H.D., Cao, D.T., **Nguyen-Ngoc, A.V.** *Deploying encryption and security techniques in public services*. In Proceedings of the 2nd Conference on Cooperation for the development of Information Technology in Vietnam, Hue City, Vietnam, August 7-8, 2003 (in Vietnamese)
- [23] Sire, S., **Nguyen-Ngoc, A.V.**, Gillet, D. *Mise au point d'un journal de laboratoire électronique pour l'apprentissage collaboratif sur le Web*. In Proceedings of the International Conference on Environnements Informatiques pour l'Apprentissage Humain (EIAH 2003), Strasbourg, France, April 15-17, 2003
- [24] Boukottaya, A., Vanoirbeek, C., **Nguyen-Ngoc, A.V.**, Rekik, Y., Zeramardini, K. *A contract based model for creating composite documents: Key issues for reusability and collaboration*. In Proceedings of the International Conference on Documents Virtuels Personnalisables (DVP 2002), Brest, France, July 10-11, 2002
- [25] **Nguyen-Ngoc, A.V.**, Rekik, Y., Gillet, D. *Integrated environment for Web-based experimentation in engineering education*. In Proceedings of the 14th AACE World Conference on Educational Multimedia, Hypermedia & Telecommunications (ED-MEDIA 2002), Denver, Colorado, USA, June 24-29, 2002

Selected technical reports and local conferences

- [1] Simon, B. et al., *ICOPER Reference Model Specification Draft*, Deliverable 7.3a, ICOPER: a project of the European Commission, May, 2010
- [2] Mueller, D. et al., *Guideline for the integration of instructional models with open educational content in IMS Learning Design*, Deliverable 5.2, ICOPER: a project of the European Commission, April, 2010

- [3] Agea, A. et al., *Production flow description and prototype for the two platforms under study (Moodle and .LRN) including the required steps to exchange the material in both platforms*, Deliverable 6.2, ICOPER: a project of the European Commission, February, 2010
- [4] Najja, J. et al., *Model for describing learning needs and learning opportunities taking context ontology modelling into account*, Deliverable 2.2, ICOPER: a project of the European Commission, January, 2010
- [5] Agea, A. et al., *Analysis of existing specifications and standards for assessment and evaluation and their usage in Europe*, Deliverable 6.1, ICOPER: a project of the European Commission, October, 2009
- [6] Mueller, D. et al., *Report on technical basis of IMS Learning Design to combine instructional models with collaboration services and rich media (open) content*, Deliverable 5.1, ICOPER: a project of the European Commission, September, 2009
- [7] Najja, J. et al., *Report of study of learning needs building blocks and the standards to be used*, Deliverable 2.1, ICOPER: a project of the European Commission, May, 2009
- [8] **Nguyen-Ngoc, A.V.**, Law, E. L.-C., *iCamp Third Trial Evaluation*. Deliverable 4.4, iCamp: a project of the European Commission, January, 2009
- [9] Law, E. L.-C., **Nguyen-Ngoc, A.V.** *iCamp Second Trial Evaluation*. Deliverable 4.3, iCamp: a project of the European Commission, May, 2008
- [10] Law, E.L.-C., **Nguyen-Ngoc, A.V.** *iCamp Trial-1 Evaluation*. Deliverable 4.2, iCamp: a project of the European Commission, July 2007
- [11] Do-Lenh, S., Nguyen, S., Nguyen, Q., **Nguyen-Ngoc, A.V.**, *eCole: A collaboration and simulation framework for Computer Science education*. Poster session. The 4th IEEE International Conference on Computer Science - Research, Innovation and Vision of the Future, February, 2006
- [12] **Nguyen-Ngoc, A.V.**, Rekik, Y., Gillet, D. *Evaluation of automatic control laboratory courses at the EPFL - 2005*. Contribution to the Work Package on Online Experiments, ProLEARN 'Network of Excellence': a project of the European Commission, June, 2005
- [13] **Nguyen-Ngoc, A.V.**, Gillet, D., Rekik, Y. *A comparative assessment of a Web-based experimentation environment*. Poster session. International Conference on Engineering Education, Gainesville, Florida, USA, October 16-21, 2004
- [14] **Nguyen-Ngoc, A.V.**, Rekik, Y., Gillet, D. *Evaluation of automatic control laboratory courses at the EPFL - 2004*. Contribution to the Work Package on Online Experiments, ProLEARN 'Network of Excellence': a project of the European Commission, September, 2004
- [15] **Nguyen-Ngoc, A.V.** *Web-based collaboration in flexible engineering education*. Poster. The 6eme Journée de l'automatique, EPFL, Switzerland, October 7, 2003

Theses

- [1] **Nguyen-Ngoc, A.V.** *Web-based interaction and collaboration in flexible engineering education. An artifact-based approach*. Thesis No 3543. Doctoral program in computer, communications, and information sciences. EPFL, Switzerland, 2006
- [2] **Nguyen-Ngoc, A.V.** *Object-oriented modeling for complex systems. Examples in Terminode network routing and Friend Assisted Path Discovery Algorithm*. Pre-doctoral school thesis. Department of Communication Systems, EPFL, Switzerland, July 2001

REFERENCES

Available upon request