Curriculum Vitae

Name : **Kam Hou VAT**   **Department of Computer & Information Science**
E-mail : **fstkhv@um.edu.mo**   **Faculty of Science & Technology**
Fax : **853 – 8822-2426**   **University of Macau, Macau**
Phone : **853 – 8822-4476**   **Macau SAR, China**
URL : **http://www.fst.umac.mo/en/staff/fstkhv.html**

Academic Qualifications

- PhD in Software Engineering (2011), University of Macau, Macau
- Master of Science in Computer Engineering (1990), University of Louisiana, LA, USA
- Bachelor of Science in Electrical Engineering (1988), University of Louisiana, LA, USA
  University of Louisiana, Lafayette, LA, USA, was formerly named the University of Southwestern Louisiana.

Work Experience

- 2009 – Present, Senior Instructor in Computer and Information Science
- 2005 – 2009 Invited Lecturer in Software Engineering
- 1992 – 2005, Lecturer in Software Engineering
- Concurrent Appointments
    - 2017 January – 2018 July, Associate Master of Shiu Pong College (SPC)
    - 2016 August – 2016 December, Associate Master and Chief of Students, SPC
    - 2012 November – 2014 June, Coordinator of Blended Learning and Technology Development, Center for Teaching and Learning Enhancement (CTLE)

Areas of Research

- User Experience Design of Virtual Learning Environments with Emergent Technologies
- Learner-Centered Design in Computing Education with Constructivism
- Design Research in Information Systems for Learning Organizations
- Rationale Management in Software Engineering with Soft Systems Methodology
- Organizational Modeling with Scenario-Based Design and Data Analytics

Professional Services

- Associate Editor, *Journal of Information Technology Education: Research* (JITE: Research - ISSN:1539-3585) (http://www.informingscience.us/icarus/journals/jiteresearch/), Informing Science Institute, USA. (2005-2014).
- Associate Editor, *Journal of Information Technology Education: Innovations in Practice* (JITE: IIP - ISSN: 2165-316X) (http://www.informingscience.us/icarus/journals/jiteiip/), Informing Science Institute, USA. (2005-2014).
- Associate Editor, *Interdisciplinary Journal of E-Learning and Learning Objects* (ISSN: 1552-2237) (http://www.ijklo.org/), Informing Science Institute, USA (2008-2010).
- Member of the Editorial Advisory Board for:
    - *Campus Wide Information Systems: The International Journal of Information and Learning Technology* (ISSN 1065-0741) (http://www.emeraldinsight.com/cwis.htm), published by Emerald, England (2004-2006).
    - *Handbook of Research on E-Government Readiness for Information and Service Exchange: Utilizing Progressive Information Communication Technologies* (ISBN 978-1-60566-671-6) (http://www.igi-global.com/reference/details.asp?id=34559), edited by Hakikur Rahman, published by IGI Global Inc. (Hershey, PA, USA) in 2009.

- ○ *Cases on Adoption, Diffusion and Evaluation of Global E-Governance Systems: Impact at the Grass Roots* (ISBN 978-1-61692-814-8) (http://www.igi-global.com/Bookstore/TitleDetails.aspx?TitleId=41738), edited by Hakikur Rahman, to be published by IGI Global Inc. (Hershey, PA, USA) in 2010.
  - ○ *Cases on SMEs and Open Innovation: Applications and Investigations* (ISBN 978-1-61350-314-0) (http://www.igi-global.com/bookstore/titledetails.aspx?titleid=53000), edited by Hakikur Rahman and Isabel Ramos, to be published by IGI Global Inc. (Hershey, PA, USA) in 2012.
- Member of Editorial Review Board for the following international journals published by the US-based Information Resources Management Association (IRMA), Informing Science Institute (ISI), Association of Information Technology Professionals (AITP), VirginiaTech, and IPCA – Polytechnic Institute of Cávado and Ave, Portugal:
  - ○ *International Journal of E-Adoption* (ISSN 1937-9633) (http://www.igi-global.com/journals/details.asp?ID=7767), published by IRMA (since 2008);
  - ○ *Informing Science: The International Journal of an Emerging Discipline* (ISSN 1521-4672) (http://inform.nu), published by ISI (2005 - 2014);
  - ○ *Journal of Information, Information Technology and Organization* (ISSN 1557-1335) (http://jiito.org), published by ISI (2006 - 2014);
  - ○ *Interdisciplinary Journal of Information, Knowledge and Management* (ISSN 1555-1237) (http://ijikm.org), published by ISI (2006 - 2014);
  - ○ *International Journal of Doctoral Studies (IJDS)* (ISSN 1556-8873) (http://www.ijds.org/), published by ISI (2010-2014);
  - ○ *Interdisciplinary Journal of E-Learning and Learning Objects (IJELLO)*(ISSN 1552-2237) (http://www.ijello.org/), published by ISI (2010-2014)
  - ○ *Information and Communication Technologies for the Advanced Enterprise: an international journal* (ISSN 1647-1407) (http://www.ict4ae.org), published by IPCA (2009 - 2014);
  - ○ *International Journal of ePortfolio (IJeP ISSN 2157-622X) (http://www.theijep.com/about.html) published by the Center for Instructional Development and Educational Research in the Office of Undergraduate Education at VirginiaTech;*
  - ○ *Journal of Information Systems Education (JISE ISSN 1055-3096) (http://jise.org/index.htm), published by the Education Special Interest Group (EDSIG) of the Association of Information Technology Professionals (AITP)*
  - ○ *To Improve the Academy (TIA): Resources for Faculty, Instructional, and Organizational Development, Volumes (31, 32),* edited by James E. Groccia, published by POD (2012, 2013) (http://www.podnetwork.org/publications/academy.htm)
- Member of the Review Community for the following international conferences:
  - ○ *The Annual (39th,40th, 41st , 42nd, 43rd,44th,45th, 46th, and 47th) ACM Technical Symposium for Computer Science Education (SIGCSE2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016);*
  - ○ *The Annual (11th, 14th, 17th, 18th, 19th and 20th) ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE2006, 2009, 2012, 2013, 2014, and 2015);*
  - ○ *The Annual (4th, 5th, 6th, 7th, 8th, 9th) Conference of the Southern Association for Information Systems (SAIS 2001, 2002, 2003, 2004, 2005, 2006);*
  - ○ *The Information Systems Education Conference (ISECON 2001, 2002, 2003, 2004, 2005);*
  - ○ *The Informing Science + IT Education Conference (InSITE 2003, 2004, 2005, 2006);*
  - ○ *The 2004 International Conference on Computing, Communications and Control Technologies (CCCT2004);*
- Member of the Steering Committee for the InSITE2004 Conference in Rockhampton, Australia.

- Member of the Program Committee for the InSITE2005 Conference in Flagstaff, Arizona, USA.
- Member of the Scientific Committee for 4th edition of CENTERIS - Conference on the ENTERprise Information Systems: Aligning Business, Technology and People (CENTERIS'2012) (http://centeris2011.eiswatch.org)
- Member of the Closing Panel Discussion "Partnership to Transform Learning through Technologies", chaired by Professor Nancy LAW, in the *CITE Research Symposium 2013* (http://citers2013.cite.hku.hk/en/closing-panel.htm), May 10-11, University of Hong Kong, Hong Kong.
- Member of the Organizing Committee for Macau Professional Development on e-Learning Workshop 2013 for K-12 Teachers, July 13, 2013, Pui Ching Middle School, Macau
- Co-Chair in Teacher's Forum (Macau Region) for the 20th Global Chinese on Computers in Education (GCCCE 2016).
- Member of the International Program Committee, for HKAECT-AECT 2017 Summer Research Symposium, June (15 – 17), at the University of Hong Kong (http://www.hkaect.org/hkaect-aect-2017/index.html)
- Member of the International Program Committee, for HKAECT-AECT 2018 Summer Research Symposium, July (25 – 27), at the Baptist University of Hong Kong (http://www.hkaect.org/hkaect2018/)

Awards and Honors

- University of Macau (37th Anniversary) Long Service Award (25 Year Milestone: 1992-2017), received on April 26, 2018
- University of Macau (32nd Anniversary) Long Service Award (20 Year Milestone: 1992-2012), received on March 15, 2013
- University of Macau (30th Anniversary) Long Service Award (15 Year Milestone: 1992-2007), received on May 23, 2011
- IEEE (Institute of Electrical and Electronics Engineering) Senior Membership Award received on April 26, 2008
- ACM (Association of Computing Machinery) Senior Membership Award received on August 30, 2008
- Distinguished Merit Award received on November 6, 2004 for my conference paper as follows:
  Vat, K.H. (2004), "Systems Architecting of IS Support for Learning Organizations: The Scenario-Based Design Challenge in Human Activity Systems," presented and published in the *CD-Proceedings (ISSN: 1542-7382) of the 2004 Information Systems Education Conference (ISECON2004)*, Nov. 4-7, Newport, Rhode Island, USA (Recipient of the ISECON2004 Distinguished Merit Award -> http://proc.isecon.org/2004/3245/index.html).
- *Outstanding Paper Award* received on July 14, 2013 for my forum discussion paper as follows:
  Vat, K.H. (2013), "Appreciative Coaching for RC-Based Learning Communities with a Caring Perspective," presented in the *Student Affairs Forum* of the University of Macau 2013, July 13-14, 2013, University of Macau, Macau.

Selected Publications

Journal Articles

- Vat, K.H. (2009), "Developing REALSpace - Discourse on a Student-Centered Creative Knowledge Environment for Virtual Communities of Learning," in *International Journal of*

Virtual Communities and Social Networking (ISSN: 1942-9010), Vol. 1, No. 1 (January - March) pp. 43-74 (http://www.igi-global.com/journals/details.asp?id=7954).

- Vat, K.H. (2006), "Teaching a Collaborative Model of IS Development through Problem-Based Learning," in *Information Systems Education Journal (ISSN: 1545-679x)*, Volume 4, Number 102, October (http://isedj.org/4/102/).
- Vat, K.H. (2006), "Conceiving Scenario-Based IS Support for Knowledge Synthesis: The Organization Architect's Design Challenge in Systems Thinking," in *Journal of Systemics, Cybernetics and Informatics (ISSN: 1690-4524)*, Volume 3, Number 3. (http://www.iiisci.org/Journal/SCI/Contents.asp?var=&Previous=ISS7574). An official publication of the International Institute of Informatics and Systemics (IIIS).
- Vat, K.H. (2006), "Integrating Industrial Practices in Software Development through Scenario-Based Design of PBL Activities: A Pedagogical Re-Organization Perspective," in *Journal of Issues in Informing Science and Information Technology (ISSN: 1547-5859 CD Version)*, Volume 3, June, pp. 687-708 (Choose Volume 3 from http://iisit.org/).
- Vat, K.H. (2006), "Developing a Learning Organization Model for Problem-Based Learning: The Emergent Lesson of Education from the IT Trenches," in *Journal of Cases on Information Technology (ISSN 1548-7717)*, Volume 8, Number 2, April-June, pp. 82-109. An official publication of the Information Resources Management Association (IRMA) since 1999.
- Vat, K.H. (2005), "Systems Architecting of IS Support for Learning Organizations: The Scenario-Based Design Challenge in Human Activity Systems," in *Information Systems Education Journal (ISSN: 1545-679x)*, Volume 3, Number 2, July (http://isedj.org/3/2/).
- Vat, K.H. (2005), "Modeling Human Activity Systems for Collaborative Project Work: An IS Development Perspective," in *Journal of Issues in Informing Science and Information Technology (ISSN: 1547-5859 CD Version)*, Volume 2, June, pp. 49-65 (http://2005papers.iisit.org/I05f65Vat.pdf).
- Vat, K.H. (2004), "On the Idea of Organization Transformation: The IS/IT Design Challenge in Systems Thinking," in *Journal of Issues in Informing Science and Information Technology (ISSN: 1547-5859 CD Version)*, Volume 1, June, pp. 0941-0950 (http://articles.iisit.org/120vat.pdf).
- Vat, K.H (2003), "Architecting of Learning Organizations: The IS Practitioners' Challenge in Systems Thinking," in *Information Systems Education Journal (ISSN: 1545-679x)*, Volume 1, Number 26, December (http://isedj.org/1/26/).
- Vat, K.H.(2001), "Web-Based Asynchronous Support for Collaborative Learning," in *Journal of Computing in Small Colleges (official publication of Consortium for Computing in Small Colleges, CCSC)*, Volume 17, Number 2, December, pp. 310-328 (Available from http://portal.acm.org/dl.cfm: Search "JCSC, Vol. 17, No. 2").

Case Studies and Handbooks of Research Works

- Vat, K.H. (2012), "Innovating Elite Undergraduate Education through Quality Continuous Improvement: A Learning Enterprise's e-Transformation Perspective," to appear in Hakikur Radman and Isabel Ramos (Eds.), *Cases on SMEs and Open Innovation: Applications and Investigations* (ISBN 978-1-61350-314-0). Hershey, PA, USA: Information Science Reference (IGI Global, Inc.) (http://www.igi-global.com/bookstore/titledetails.aspx?titleid=53000).
- Vat, K.H. (2010), "Conceiving Community Knowledge Records as e-Governance Concerns in Wired Healthcare Provision," accepted to appear in H. Rahman (Ed.), *Cases on Adoption, Diffusion and Evaluation of Global E-Governance Systems: Impact at the Grass Roots* (http://www.igi-global.com/requests/details.asp?ID=598). Hershey, PA, USA: IGI Global, Inc.
- Vat, K.H. (2009), "Virtual Organizing Professional Learning Communities through a Servant-Leader Model of Appreciative Coaching," in Y. Inoue (Ed.), *Cases on Online and Blended Learning Technologies in Higher Education: Concepts and Practices* (ISBN 978-

1-60566-880-2). Hershey, PA, USA: Information Science Reference (IGI Global, Inc.) (http://www.igi-global.com/reference/details.asp?ID=34829), pp.183-206.

- Vat, K.H. (2009), "The Generative Potential of Appreciative Inquiry as an Essential Social Dimension of the Semantic Web," in M. Cunha, E. Oliveira, A. Tavares, & L. Ferreira (Eds.), *Handbook of Research on Social Dimensions of Semantic Technologies and Web Services (ISBN978-1-60566-650-1).* Hershey, PA, USA: Information Science Reference (IGI Global Inc) (http://www.igi-global.com/reference/details.asp?id=34405), pp. 411-434.
- Vat, K.H. (2009), "The e-Governance Concerns in IS Design for Effective e-Government Performance Improvement," in H. Rahman (Ed.), *Handbook of Research on E-Government Readiness for Information and Service Exchange: Utilizing Progressive Information Communication Technologies (ISBN 978-1-60566-671-6).* Hershey, PA, USA: Information Science Reference (IGI Global, Inc.) (http://www.igi-global.com/reference/details.asp?id=34559), pp. 48-69.

Encyclopedia Contributions

- Vat, K.H. (2011), "Appreciative Sharing for Organizational Knowledge Work," in *D. Schwartz (Ed.), Encyclopedia of Knowledge Management, 2nd Edition (ISBN 978-1-59904-931-1).* Information Science Reference (IGI Global Inc.): Hershey, USA., pp.27-38.
- Vat, K.H. (2011), "Knowledge Synthesis Framework," in *D. Schwartz and D. Teéni (Eds.), Encyclopedia of Knowledge Management, 2nd Edition (ISBN 978-1-59904-931-1).* Information Science Reference (IGI Global Inc.): Hershey, USA, pp.955-966.
- Vat, K.H. (2009), "An E-Portfolio Scheme of Flexible Online Learning," in Patricia L. Rogers, G.A. Berg, J. Boettcher, C. Howard, L. Justice, and K. Schenk (Eds.), *Encyclopedia of Distance Learning, 2nd Edition (ISBN 978-1-60566-198-8).* Information Science Reference (IGI Global Inc.): Hershey, USA, pp. 941-949.
- Vat, K.H. (2009), "Conceiving a Learning Organization Model for Online Education," in Patricia L. Rogers, G.A. Berg, J. Boettcher, C. Howard, L. Justice, and K. Schenk (Eds.), *Encyclopedia of Distance Learning, 2nd Edition (ISBN 978-1-60566-198-8).* Information Science Reference (IGI Global Inc.): Hershey, USA, pp. 391-397.
- Vat, K.H. (2009), "OMIS-Based Collaboration with Service-Oriented Design," in M. Khosrow-Pour (Ed.), *Encyclopedia of Information Science and Technology, 2nd Edition (ISBN 978-1-60566-026-4).* Information Science Reference (IGI Global Inc.): Hershey, USA, pp. 2875-2881.
- Vat, K.H. (2008), "E-Portfolio and Pedagogical Change for Virtual Universities," in Goran D. Putnik and M. Manuela C. Cunha (Eds.), *Encyclopedia of Networked and Virtual Organizations (ISBN 978-1-59904-885-7; Release Feb-2008).* Information Science Reference (IGI Global Inc.): Hershey, USA., pp.508-515.
- Vat, K.H. (2006), "Virtual Organizing Online Communities in Support of Knowledge Synthesis," in *S. Dasgupta (Ed.), Encyclopedia of Virtual Communities and Technologies (ISBN 1-59140-563-7; Release Nov-2005).* Idea Group Reference (Idea Group Inc.): Hershey, USA, pp. 547-555.
- Vat, K.H. (2006), "IS Design for Community of Practice's Knowledge Challenge," in *E. Coakes and S.A. Clarke (Eds.), Encyclopedia of Communities of Practice in Information and Knowledge Management (ISBN 1-59140-556-4; Release Nov-2005).* Idea Group Reference (Idea Group Inc.): Hershey, USA., pp. 246-256.
- Vat, K.H. (2006), "Knowledge Synthesis Framework," in *D. Schwartz (Ed.), Encyclopedia of Knowledge Management (ISBN 1-59140-573-4; Release Oct-2005).* Idea Group Reference (Idea Group Inc.): Hershey, USA, pp. 530-537.
- Vat, K.H. (2005), "Designing OMIS-Based Collaboration for Learning Organizations," in *M. Khosrow-Pour (Ed.), Encyclopedia of Information Science and Technology (ISBN 1-59140-553-X).* Idea Group Reference (Idea Group Inc.): Hershey, USA, pp. 827-830.

- Vat, K.H. (2005), "Conceiving a Learning Organization Model for Online Education," in *Patricia L. Rogers (Ed.), Vol. 1 of 4, Distance Learning Technologies and Applications, Encyclopedia of Distance Learning (ISBN 1-59140-555-6)*. Idea Group Reference (Idea Group Inc.): Hershey, USA, pp.367-373.
- Vat, K.H. (2005), "SSM-Based IS Support for Online Learning," in *C. Howard, J. Boettcher, L. Justice, K. Schenk, and G.A. Berg (Eds.), Vol. 4 of 4, Online Learning and Technologies, Encyclopedia of Distance Learning (ISBN 1-59140-555-6)*. Idea Group Reference (Idea Group Inc.): Hershey, USA, pp.1650-1659.

Research Book Chapters

- Vat, K.H. (2010), "Developing Student e-Portfolios for Outcomes-Based Assessment in Personalized Instruction," in Y. Kats (Ed.), *Learning Management Systems Technologies and Software Solutions for Online Teaching: Tools and Applications*. (ISBN: 978-1-61520-853-1). Hershey, PA, USA: Information Science Reference (IGI Global Inc).(http://www.igi-global.com/Bookstore/TitleDetails.aspx?TitleId=37343), pp. 259-290.
- Vat, K.H. (2009), "Developing REALSpace: Discourse on a Student-Centered Creative Knowledge Environment for Virtual Communities of Learning," in N. Kock (Ed.), *E-Collaboration: Concepts, Methodologies, Tools and Applications* (ISBN: 978-1-60566-652-5). Hershey, PA, USA: Information Science Reference (IGI Global Inc) (http://www.igi-global.com/reference/details.asp?id=34578), pp. 307-340.
- Vat, K.H. (2009), "The Generative Potential of Appreciative Inquiry for CoP: The Virtual Enterprise's Emergent Knowledge Model," in D. Akoumianakis (Ed.), *Virtual Community Practices and Social Interactive Media: Technology Lifecycle and Workflow Analysis* (ISBN: 978-1-60566-340-1). Hershey, PA, USA: Information Science Reference (IGI Global Inc) (http://www.igi-global.com/reference/details.asp?ID=33347), pp. 60-85.
- Vat, K.H. (2009), "Building Virtual Communities through a De-marginalized View of Knowledge Networking," in Miltiadis D. Lytras & P. Ordonez de Pablos (Eds.), *Social Web Evolution: Integrating Semantic Applications and Web 2.0 Technologies (ISBN 978-1-60566-272-5).* Hershey, PA: Information Science Reference (IGI Global, Inc.), pp. 233-248.
- Vat, K.H. (2009), "Designing Open-Source OMIS Environment for Virtual Teams to Support Inter-Enterprise Collaboration," in *Maria M. Cruz-Cunha (Ed.), Social, Managerial and Organizational Dimensions of Enterprise Information Systems* (ISBN 978-1-60566-856-7). Hershey, PA, USA: Business Science Reference (IGI Global, Inc.) (http://www.igi-global.com/reference/details.asp?ID=34829), pp. 272-288.
- Vat, K.H. (2008), "Building Virtual Communities through a De-marginalized View of Knowledge Networking," in Jerzy Kisielnicki (Ed.), *Virtual Technologies: Concepts, Methodologies, Tools, and Applications (3 Volumnes)* (ISBN 978-1-59904-955-7). Information Science Reference (IGI Global Inc.): Hershey, USA, pp. 488-502.
- Vat, K.H. (2008), "Knowledge Synthesis Framework," in Murray E. Jennex (Ed.), *Knowledge Management: Concepts, Methodologies, Tools, and Applications (6 Volumes)* (ISBN 978-1-59904-933-5). Information Science Reference (IGI Global Inc.): Hershey, USA, pp. 297-307.
- Vat, K.H. (2008), "IS Design for Community of Practice's Knowledge Challenge," in Murray E. Jennex (Ed.), *Knowledge Management: Concepts, Methodologies, Tools, and Applications (6 Volumes)* (ISBN 978-1-59904-933-5). Information Science Reference (IGI Global Inc.): Hershey, USA, pp. 850-861.
- Vat, K.H. (2007), "Conceiving a Learning Organization Model for Online Education," in Lawrence A. Tomei (Ed.), *Online and Distance Learning: Concepts, Methodologies, Tools, and Applications (6 Volumes)* (ISBN 978-1-59904-935-9). Information Science Reference (IGI Global Inc.): Hershey, USA, pp. 1128-1136.
- Vat, K.H. (2006), "Building Virtual Communities through a De-marginalized View of Knowledge Networking," in *Hakikur Rahman (Ed.), Empowering Marginal Communities*

with Information Networking (ISBN: 1-59140-700-1), Idea Group Publishing: Hershey, USA, pp.278-299.

- Vat, K.H. (2003), "Conceiving Architectural Aspects for Quality Software Education through the Constructivist Perspective," in: *Tanya McGill (Ed.), Current Issues in IT Education (ISBN 1-931777-53-5)*, IRM Press (Idea Group Inc.): Hershey, USA, pp.98-116.
- Vat, K.H. (2002), "Designing Organizational Memory for Knowledge Management Support in Collaborative Learning," in: *D. White (Ed.), Knowledge Mapping and Management (ISBN 1-931777-17-9)*, IRM Press (Idea Group Inc.): Hershey, USA, pp. 233-243.
- Vat, K.H. (2001), "E-Commerce in Action: An Educational Response to Re-engineer Today's University Model for the Internet Age," in *O.K. Gupta and R. Seethamraju (Eds.), Information Technology and Operations Management: Relationships and Synergies (ISBN 0-07-043585-5)*, Tata McGraw-Hill, New Delhi, pp. 102-111.

Refereed Conference Papers

- Vat, K.H. (2006), "Integrating Soft Systems Methodology into the Teaching of Human-Computer Interaction: A Constructivist Design Based on Problem-Based Learning," presented and published in the *CD-Proceedings of the Society for Information Technology and Teacher Education International Conference (SITE2006)*, Mar. 20-24, Orlando, Florida, USA.
- Vat, K.H. (2006), "Nurturing Self-Directed Work Teams in the Education of Information Systems Professionals," presented and published in the CD-Proceedings of the Nineth Annual Conference of the Southern Association for Information Systems (SAIS2006), Mar. 11-12, Jacksonville, Florida, USA (http://sais.aisnet.org/2006/Vat-SAIS2006-paper.pdf).
- Vat, K.H. (2005), "Teaching a Collaborative Model of IS Development through Problem-Based Learning," in the *CD-Proceedings (ISSN: 1542-7382) of the 2005 Information Systems Education Conference (ISECON2005)*, Oct. 6-9, Columbus, Ohio, USA. (Currently Accessible from http://proc.isecon.org/2005/5112/index.html)
- Vat, K.H. (2005), "On the Importance of Human Activity Systems in Organization Modeling for IS Development," presented and published in the *CD-Proceedings of the Eighth Annual Conference of the Southern Association for Information Systems (SAIS2005)*, Feb. 25-26, Savannah, Georgia, USA (http://sais.aisnet.org/sais2005/vat.pdf).
- Vat, K.H. (2004), "Toward a Learning Organization Model for Student Empowerment: A Teacher-Designer's Experience as a Coach by the Side," presented and published in the *Proceedings of the 2004 IADIS International Conference on Cognition and Exploratory Learning in Digital Age (CELDA2004)*, Dec. 15-17, Lisbon, Portugal, pp.131-140.
- Vat, K.H. (2004), "Systems Architecting of IS Support for Learning Organizations: The Scenario-Based Design Challenge in Human Activity Systems," presented and published in the *CD-Proceedings (ISSN: 1542-7382) of the 2004 Information Systems Education Conference (ISECON2004)*, Nov. 4-7, Newport, Rhode Island, USA (Recipient of the ISECON2004 Distinguished Merit Award -> http://proc.isecon.org/2004/3245/index.html).
- Vat, K.H. (2004), "Conceiving a Learning Organization Model for Sustainable Development: The IS Manager's Perspective Based on Soft Systems Methodology," presented and published in the *Proceedings of the IEEE International Engineering Management Conference 2004 (IEMC2004)*, Oct. 18-21, Singapore, pp. 500-504.
- Vat, K.H. (2004), "Putting the University Online: A Learning Organization Model for Electronic Transformation," presented and published in the *Proceedings of the 3rd International Conference on ICT and Higher Education (e-University 2004)*, Aug. 31 - Sep. 2, Bangkok, Thailand, pp.135-148.
- Vat, K.H. (2004), "On the Idea of Soft Systems Methodology for IS Development: A Perspective Based on Purposeful Action," presented and published in the *Proceedings of*

the International Conference on Computing, Communications and Control Technologies (CCCT2004), August 14-17, Austin, Texas, USA, pp. 227-232.

- Vat, K.H. (2004), "Conceiving Scenario-Based IS Support for Knowledge Synthesis: The Organization Architect's Design Challenge in Systems Thinking," presented and published in the *Proceedings of the 10th International Conference on Information Systems Analysis and Synthesis (ISAS2004)*, Orlando, Florida, USA, July 21-25, pp.101-106.
- Vat, K.H. (2004), "Towards a Learning Organization Model for PBL: A Virtual Organizing Scenario of Knowledge Synthesis," presented and published in the *CD-Proceedings of the Seventh Annual Conference of the Southern Association for Information Systems (SAIS2004)*, Feb. 27-28, Savannah, Georgia, USA (http://sais.aisnet.org/sais2004/VAT.pdf).
- Vat, K.H. (2003), "Toward an Actionable Framework of Knowledge Synthesis in the Pursuit of Learning Organization," presented and published in the *CD-Proceedings of the 2003 Informing Science + IT Education Conference (InSITE2003)*, in Pori, Finland, Jun. 24-27, pp.1085-1100.
- Vat, K.H. (2003), "A Context-Based Organization Modeling for e-Learning Initiatives," in the *Proceedings of the 2003 Information Resources Management Association International Conference (IRMA2003)*, May 18-21, Philadelphia, Pennsylvania, USA, Vol.2, pp. 651-652.
- Vat, K.H. (2003), "An IS-Based Architectural Modeling for Learning Organization: A Conceptual Walkthrough," presented and published in the *Proceedings of the Sixth Annual Conference of the Southern Association for Information Systems (SAIS2003)*, Mar. 7-8, Savannah, Georgia, USA, pp. 55-62.
- Vat, K.H. (2002), "Virtual Organizing As a Strategic Learning Approach to Organization Transformation," presented and published in the *Proceedings of the 2002 International Conference on Systems, Development and Self-Organization (ICSDS2002)*, Nov. 30 - Dec. 1, Beijing, China, pp. 134-139.
- Vat, K.H. (2002), "On the Importance of Organization Modeling for IS Education," presented and published in the *CD-Proceedings (ISSN: 1542-7382) of the 2002 Information Systems Education Conference (ISECON2002)*, Oct. 31 - Nov. 3, San Antonio, Texas, USA (http://proc.isecon.org/2002/244b/index.html).
- Vat, K.H. (2002), "Engineering Component-Based Knowledge Applications for e-Learning Organizations: The Software Architects' Challenge in Organizational Transformation," presented and published in *Proceedings of the Sixth World Multi-Conference on Systemics, Cybernetics and Informatics (SCI2002)*, in Orlando, Florida, USA, July 14-18, Vol. 1, pp.262-267.
- Vat, K.H. (2002), "Teaching Architectural Approach to Quality Software Development through Problem-Based Learning," presented and published in the *CD-Proceedings of the 2002 Informing Science + IT Education Conference (InSITE2002)*, in Cork, Ireland, Jun. 19-21.
- Vat, K.H. (2002), "Conceiving Service-Based Architecture and Process for Quality Software Education," presented and published in the *Proceedings of the 2002 Information Resources Management Association International Conference (IRMA2002)*, May 19-22, Seattle, Washington, USA, Vol.1, pp. 817-820.
- Vat, K.H. (2002), "Developing e-Learning Architectures for Communities of Practice: A Knowledge Perspective," presented and published in the *CD-Proceedings of the 2002 World Conference on Networked Learning in a Global Environment: Challenges and Solutions for Virtual Education (NL2002)*, May 1-4, Berlin, Germany.
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- Vat, K.H. (2001), "Teaching HCI with Scenario-Based Design: The Constructivist's Synthesis," presented and published in *Proceedings of the Sixth Annual ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE2001)*, Canterbury, U.K., Jun. 25-27, pp. 9-12.
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- Vat, K.H. (2001), "REAL: Towards a WWW-Enabled Course Support Environment for Active Learning," presented in the *International Conference on Learning and Teaching Online (LTOL2001)*, Jan. 10-12, Guangzhou, China (Paper No. 291).
- Vat, K.H. (2000), "Designing Web Information Systems for Internet Commerce through the Virtual Organization Model," presented and published in *Proceedings of the 2000 International Software Development and Management Conference (ISD&M2000)*, Dec. 14-15, Hong Kong, pp.193-206.
- Vat, K.H. (2000), "Online Education: A Learner-Centered Model with Constructivism," presented and published in *Proceedings of the Eighth International Conference on Computers in Education (ICCE 2000)*, Nov. 21-24, Taipei, Taiwan, pp. 560-568.
- Vat, K.H. (2000), "Designing Knowledge Infrastructure for Virtual Enterprises in Organizational Learning," presented and published in *Proceedings of the Tenth Annual Business Information Technology Conference (BIT 2000)*, Nov. 1-2, Manchester, England, (CD-ROM Paper No. 45).
- Vat, K.H. (2000), "Training E-Commerce Support Personnel for Enterprises through Action Learning," presented and published in *Proceedings of the 2000 ACM SIGCPR Conference*, Apr. 6-8, Chicago, Illinois, USA, pp.39-43.
- Vat, K.H. (2000), "Teaching Software Psychology: Expanding the Perspective," presented and published in *Proceedings of the Thirty-first SIGCSE Technical Symposium on Computer Science Education*, Mar. 8-12, Austin, Texas, USA, pp.392-396.

Presentations

- Vat, K.H. (2014), "Empowering Student Learning with Personal Learning Networks for Appreciative College Experience," presented in Higher Education Research and Development Society of Australia (HERDSA) Conference 2014, *Higher Education in a Globalized World* (Showcase Presentation #278). July 7-10, 2014: Hong Kong Baptist University, Hong Kong. (Downloadable PPT)
- Vat, K.H. (2013), "Appreciative Coaching for RC-Based Learning Communities with a Caring Perspective," presented and granted the *Outstanding Paper Award* in the *Student Affairs Forum of the University of Macau 2013*, July 13-14, 2013, University of Macau, Macau (Downloadable: PPT).
- Vat, K.H., Brown, D., Lei, C.K., Salcedo, A., Kuok, K.M., Ha, C.H., Li, Andy, & Du, Jianxia (2013), "Advancing e-Learning Landscape in Macau's K-12 Schooling: Challenges in the 21st Century," presented in the CITE Research Symposium 2013 (http://citers2013.cite.hku.hk/en/paper_600.htm), May 10-11, University of Hong Kong, Hong Kong.

University Services

- Member of NCP (New Campus Project) Task Force on Faculties and Learning Facilities (2009 – 2010)
- Member of IWG (Informal Working Group) for Learning Space Design in A-3 BLDG, UM old campus (2009 - 2010)
- Member of UM (University of Macau) General Education Course Development Teams (2009 – 2014)
- Member of UM International Library Focus Group for Service Improvement (2009 – 2010)
- Member of the Information and Education Technology (IETC) Committee (CTLE Representative) (2010SEP - 2010DEC)
- Member of Departmental Committees (Department of Computer & Information Science)
  - General Education Committee
  - Program Accreditation Committee
- Volunteer Coordinator of E-Learning and Educational Technology in Centre for Teaching and Learning Enhancement (CTLE) (2010JAN - 2010DEC)
- Volunteer Professional of CTLE IT Support and E-Learning Practices (2009 – 2012)
- Member of FST Online Course Development Team (2017 – 2018) for *CISC1000 Information Technology Fundamentals and Practices*, launched in the first semester of AY2018-2019

Community Services

- Volunteer Convener of Macau RTM (Round-Table-Meetings) network of schools to advance the e-Learning landscape in K-12 education: RTM-001-2012 | RTM-002-2012 | RTM-003-2012 | RTM-004-2013 | RTM-005-2013
- Volunteer Convener of *Reading-Of-Tomorrow Program* among K-12 schools in Macau: 2014APR07 | 2014MAR26 | 2013NOV12 | 2013NOV11
- Invited Learning Facilitator at the annual DSEJ-Sponsored Teacher Professional Development Summer ICT Training, organized by the Center for ICT in Education (CICTE), Faculty of Education (FED), University of Macau (UM): 2013JUL06 | 2014JUL18 | 2015JUN06| 2016JUN04 | 2017MAY13

Professional Affiliations

- Senior Member of Institute of Electrical and Electronics Engineers (IEEE)
- Senior Member of Association of Computing Machinery (ACM)
- Member of IEEE Computer Society Technical Council on Software Engineering (TCSE)
- Member of IEEE Systems, Man, and Cybernetics (SMC) Society
- Member of IEEE Education Society (IEEE Educ Society)
- Member of ACM Special Interest Group in Computer Science Education (SIGCSE)
- Member of ACM Special Interest Group in Computer Human Interaction (SIGCHI)
- Member of ACM Special Interest Group in Software Engineering (SIGSOFT)
- Former Member of Association of Information Systems (AIS)
- Former Member of Association for the Advancement of Computing in Education (AACE)
- Former Member of Association of Information Technology Professionals (AITP)
- Former Member of Consortium for Computing Sciences in Colleges (CCSC)
- Former Member of Information Resources Management Association (IRMA)

Contact Details

Kam Hou Vat, Ph.D.

Faculty of Science and Technology
University of Macau, Macau

Avenida da Universidade, Taipa,
Macau, China

Room: E11-4087 FST Academic BLDG E11
Telephone: (Office) (853) 8822-4476, (Mobile) (853) 66501747
Fax: (Office) (853) 8822 2426 E-mail: fstkhv@um.edu.mo