

Curriculum Vitae

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Department of Computer & Information Science
Faculty of Science & Technology
University of Macau, Macau
Macau SAR, China

Position and Education

- 2009 - 2013, Senior Instructor in Software Engineering
- 2005 - 2009, Invited Lecturer in Software Engineering
- 1992 - 2005, Lecturer in Software Engineering
- 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.

Areas of Research

- Constructivist Design of Virtual Learning Environments with Web Technologies
- Learner-Centered Design with Constructivism in Software Engineering Education
- Design Research in Instructional/Information Systems for Learning Organizations
- Rationale-Based Collaborative Software Engineering with Soft Systems Methodology
- Organizational Modeling with Scenario-Based Design and Service-Oriented Computing

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. (since 2005).
- 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. (since 2005).
- 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, 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, published by IGI Global Inc. (Hershey, PA, USA) in 2011.

- *Ethical Data Mining Applications for Socio-Economic Development* (ISBN 978-1-46664-078-8)(<http://www.igi-global.com/book/ethical-data-mining-applications-socio/73551>), edited by Hakikur Rahman and Isabel Ramos, to be published by IGI Global Inc. (Hershey, PA, USA) in 2013
- Member of Editorial Review Board for the following international journals published by the US-based Information Resources Management Association (IRMA), Informing Science Institute (ISI), International Institute for Applied Knowledge Management (IIAKM), Association of Information Technology Professionals (AITP), Professional and Organizational Development Network in Higher Education (POD), 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 (since 2005);
 - *Journal of Information, Information Technology and Organization* (ISSN 1557-1327) (<http://www.iiakm.org/jiito/>), published by IIAKM;
 - *Interdisciplinary Journal of Information, Knowledge and Management* (ISSN 1555-1237) (<http://ijikm.org>), published by ISI (since 2006);
 - *International Journal of Doctoral Studies (IJDS)* (ISSN 1556-8873) (<http://www.ijds.org/>), published by ISI;
 - *Interdisciplinary Journal of E-Learning and Learning Objects (IJELLO)* (ISSN 1552-2237) (<http://www.ijello.org/>), published by ISI;
 - *Information and Communication Technologies for the Advanced Enterprise: an international journal* (ISSN 1647-1407) (<http://www.ict4ae.org>), published by IPCA (since 2009);
 - *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 and 44th) ACM Technical Symposium for Computer Science Education (SIGCSE2008, 2009, 2010, 2011, 2012, 2013);*
 - *The Annual (11th, 14th, 17th, 18th) ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE 2006, 2009, 2012, 2013);*
 - *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, 2012);*
 - *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>)

Awards and Honors

- University of Macau (32nd Anniversary) Long Service Award (20 Year Milestone: 1992-2012), received on Mar 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>).

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.iisci.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," in Hakikur Radman and Isabel Ramos (Eds.), *SMEs and Open Innovation: Global Cases and Initiatives* (ISBN 978-1-61350-519-9). Hershey, PA, USA: Information Science Reference (IGI Global, Inc.) (<http://www.igi-global.com/book/smes-open-innovation/55285>), pp. 146-182.
- 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* (ISBN 978-1-60566-650-1). 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. (2013), "Measuring Student Learning Responsibly - A Learning Analytics Perspective with Web 2.0," accepted to appear in Hakikur Radman and Isabel Ramos (Eds.), *Ethical Data Mining Applications for Socio-Economic Development (ISBN 978-1-46664-078-8)*. Hershey, PA, USA: Information Science Reference (IGI Global Inc.)(<http://www.igi-global.com/book/ethical-data-mining-applications-socio/73551>).
- Vat, K.H. (2012), "Scenario-Planning for Learning in Communities: A Virtual Participation Model to Support Holistic Student Development," in Honglei Li (Ed.), *Virtual Community Participation and Motivation: Cross-Disciplinary Theories (ISBN13: 978-1-46660-312-7)*. Hershey, PA, USA: Information Science Reference (IGI Global Inc.)(<http://www.igi-global.com/book/virtual-community-participation-motivation/59749>), pp. 208-227.
- 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 Volumes) (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 Ninth 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 (ICSDDS2002)*, 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.
- Vat, K.H. (2002), "Developing Learning Organization Strategy for Online Education: A Knowledge Perspective," presented and published in the *Proceedings of the Fifth Annual Conference of the Southern Association for Information Systems (SAIS2002)*, Mar. 1-2, 2002, Savannah, Georgia, USA, pp. 291-298.
- Vat, K.H. (2002), "Developing Component-Based E-Commerce Applications for Learning Organizations: An Inter-Enterprise Architectural Response to Organizational Transformation," presented and published in *CD-Proceedings of the Third World Congress on the Management of Electronic Commerce*, Jan. 16-18, Hamilton, Ontario, Canada.
- Vat, K.H. (2001), "Towards a Learning Organization Model for Knowledge Synthesis: An IS Perspective," in *CD-Proceedings of the 2001 Information Systems Education Conference (ISECON2001)*, Nov. 1-4, Cincinnati, Ohio, USA (<http://proc.isecon.org/2001/09a/index.html>).
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University Services

- Member of NCP (New Campus Project) Task Force on Faculties and Learning Facilities
- Member of IWG (Informal Working Group) for Learning Space Design in A-3 BLDG (current campus)
- Member of UM (University of Macau) General Education Course Development Teams
- 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
- Coordinator of E-Learning and Educational Technology in Centre for Teaching and Learning Enhancement (CTLE) (2010JAN - 2010DEC)
- Coordinator of Blended Learning and Technology Development (CTLE) (2012NOV - 2013AUG)
- Member of Selection Panel for CTLE E-Learning Technology Officer (2011SEP-2011OCT)
- Volunteer Professional of CTLE IT Support and E-Learning Design
- Volunteer Mentor of First-Year Students from CIS (Computer & Information Science) Department
- Certified Student Affairs Professional (*Macau Student Affairs Institute 2012* - certificate issued by University of Macau on 2012JUN01)
- Certified Academic Affairs Professional (*General Education and Whole-Person Teaching* - certificate issued by Centre for Teaching and Learning Enhancement (CTLE), University of Macau)
- Voluntary Work in Policy Study: UM Institutional Strategies respectively for e-Learning and for Student Development

Professional Affiliations

- Founding Member of Informing Science Institute (ISI)
- 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)
- Member of Association of Information Systems (AIS)
- Member of Association for the Advancement of Computing in Education (AACE)
- Member of Association of Information Technology Professionals (AITP)
- Member of Consortium for Computing Sciences in Colleges (CCSC)
- Member of Information Resources Management Association (IRMA)

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