

## **MONICA KATIUSKA VILLAVICENCIO CABEZAS**

Professor (Tenure)

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### **1. History**

Professor FIEC. 1993- 2010

- Software Engineering I, Software Engineering II, Undergraduate Program
- Software Engineering, Management Information Systems Master Program
- Informatics Introductory Course, Undergraduate Program
- Fundamentals of programming, Undergraduate Program
- Systems analysis and design, Undergraduate Program
- Programming Languages and Techniques, Undergraduate Program

Managerial and research experience

- Director, CIDIS (Software Research, Development and Innovation Center), ESPOL, November 2008 to January 2010.
- General Manager, Molemotor S.A., September 2006 to July 2009.
- Coordinator, VII Software Engineering and Knowledge Management Ibero-American Journeys 2008, ESPOL, Guayaquil-Ecuador.
- Translator Team Coordinator, “Lo mejor de IEEE Software en Español”, IEEE Computer Society and ESPOL, February 2006 to May 2007.
- Software Engineering Co-promoter, VLIR-ESPOL Project – Component 8, April 2003 to May 2007.
- Research Coordinator, COMPETISOFT - D.4.2 Gestión de Proyectos, Región Costa - Ecuador, CYTED, January 2006 to May 2007.
- Research Coordinator, Development of a common methodological framework for process improvement within small and medium software companies. April 2006 to June 2007.
- Research Coordinator, Development of a Metrics Code for Small Software Development Firms, Ecuador, November 2005 to November 2006.
- General Coordinator, Management Information Systems Bachelor Program, ESPOL, October 1994 to March 1995, January 2000 to February 2006.
- General Coordinator, Software Development Center ESPOL-Yoveri, June 2002 to March 2003.

### **2. Percentage of full time Race assigned to 0%.**

### **3. Titles and areas, institutions and dates**

École de Technologie Supérieure (ETS) in Montreal, Canada, PhD candidate.

École des Sciences de la Gestion, Université du Québec à Montréal UQAM, Master degree in Business Administration, 2004

Electrical and Computer Engineering Department, Escuela Superior Politécnica del Litoral, Master degree in Management Information Systems, 2002

Electrical and Computer Engineering Department, Escuela Superior Politécnica del Litoral, Bachelor degree in Computer Science, 1993

#### **4. Languages**

- Spanish, English, French

#### **5. Conferences, workshops and professional development programs (last 5 years)**

IX Jornadas Iberoamericanas de Ingeniería de Software e Ingeniería del Conocimiento (JIISIC 2012), Lima, Peru, November 28-30, 2012.

International Workshop on Software Measurement and International Conference on Software Process and Product Measurement (IWSM-MENSURA), Assisi, Italy, October 17-19, 2012

Conferences and workshops of the Society for Teaching and Learning in Higher Education (STLHE), McGill University, Montreal, Canada

Fecha: Junio 19 –Junio 22 del 2012

#### **6. Other experiences related to the area**

Member of the International Advisory Council of COSMIC (the Common Software Measurement International Consortium)

#### **7. Committees that have attended in college, university and / or other university committees (last 4 years)**

#### **8. Main publications (last 5 years)**

- Monica Villavicencio, Alain Abran, 'Software Measurement in Software Engineering Education: A Delphi Study to Develop a List of Teaching Topics and Related Levels of Learning', 38th Euromicro Conference series on Software Engineering and Advanced Applications (SEAA), (IEEE: 978-0-7695-4790-9/12), pg. 357-362, Cesme, Turkey, September 5-8, 2012.
- Monica Villavicencio, Alain Abran, 'The Necessary Software Measurement Knowledge from the Practitioners' Point of View', 25th IEEE Canadian Conference on Electrical and Computer Engineering (IEEE CD: 978-1-4673-6/12), pg.1-5, Montreal, April 29-May 2, 2012.
- M. Villavicencio and A. Abran, "Educational Issues in the Teaching of Software Measurement in Software Engineering Undergraduate Programs," in Joint Conference of the 21st Int'l Workshop on Software Measurement and 6th Int'l Conference on Software Process and Product Measurement (IWSM-MENSURA), 10.1109/IWSM-MENSURA.2011.13, Nara, Japan, 2011, pp. 239-244.

- Villavicencio, Mónica; Abran, Alain, Facts and Perceptions Regarding Software Measurement in Education and in Practice: Preliminary Results, Journal of Software Engineering and Applications 4(4): 227-234, April 2011
- Villavicencio, Mónica; Abran, Alain, Software Measurement in Software Engineering Education: A Comparative Analysis, Proceedings of the joined International Conferences on Software Measurement IWSM/MetriKon/Mensura 2010, pg. 633-644, 10-12 november, ISBN 978-3-8322-9618-6.
- Lema, Lohana; Olvera, Manuel; Villavicencio, Mónica, Medición de la Productividad de Proyectos de Software Desarrollados en Dos Empresas Ecuatorianas, Memoria Técnica VIII Jornadas Iberoamericanas de Ingeniería de Software e Ingeniería del Conocimiento (JIISIC '10), Mérida, México, 2010, ISBN 978-607-707-096-2
- Macías, Verónica, Villavicencio, Mónica, Aplicación de Técnicas de Control y Análisis Orientado a Objetos para la Mejora de Procesos, Memorias de la XIII Convención y Feria Internacional Informática 2009, La Habana, Cuba, ISBN 978-959-286-010-0, Volumen 13.
- González, Raúl, Villavicencio, Mónica, Incidencia en la planificación y las inspecciones en el desarrollo de proyectos de Software: Caso de estudio realizado en Ecuador, Memoria Técnica VII Jornadas Iberoamericanas de Ingeniería de Software e Ingeniería del Conocimiento (JIISIC '08), Volumen 7, Número 1, p51 – 57, Guayaquil, Ecuador, 2008, ISSN 1390-292X
- González, Raúl, Hernández, Henry, Villavicencio, Mónica, Desarrollo de un Código de Métricas para Pequeñas Empresas Ecuatorianas Desarrolladoras de Software, Memoria Técnica VI Jornadas Iberoamericanas de Ingeniería de Software e Ingeniería del Conocimiento (JIISIC '07), Volumen 6, Número 1, p221 – 227, Lima, Perú, 2007, ISBN 9972-2885-1-7
- Asencio, José; Echeverría, Carlos; Echeverría, Cynthia; Villavicencio, Mónica, Implementación de un Sistema Integrado utilizando procesos de software en equipo (TSP), Memorias del 2do Congreso Nacional de Investigación, Tecnología e Innovación & Jornadas ESPOLCIENCIA 2006, Revista Investigación & Desarrollo, Volumen 13, Número 1, p85, Guayaquil, Ecuador, 2006, ISSN 0257-1749
- Mazón, Jorge; Villavicencio, Mónica; Alvear, José, Aplicación de Métricas para el proceso de desarrollo de software en PYMES Ecuatorianas desarrolladoras de software, III Jornadas de Ingeniería de Software, Volumen 3, Número 1, p121-139, Guayaquil, Ecuador, 2006, ISSN 1390-292X
- Villavicencio, Mónica; Izquierdo, Edgar; Snoeck, Monique; Aspects Regarding Management of Software Projects that Influence the Quality of Software Products Released: The Case of Ecuador, Memoria Técnica V Jornadas Iberoamericanas de Ingeniería de Software e Ingeniería del Conocimiento (JIISIC '06), p27-35, Volumen 5, Número 1, Puebla, México, 2006, ISBN 970-94770-0-5

## **9. Other academic activities (past 5 years)**

Component 8 Program Copromotor of the Software Engineering department VLIR-ESPOL (2003-2010).

**10. Taught Courses (last 2 years)**

**11. Research Summary (Percentage of time spent on this activity 100%)**

My research interests are: Software measurement, software engineering, software process improvement and higher education.

My current research work deals with software measurement in higher education, specifically for undergraduate students.