Curriculum Vitae

Salvador Tututi Avila

Personal Information

Address: 1329 15th Street, Troy, NY 12180

Date of Birth: May 03, 1981

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Interest Areas

Process Control, Particulate Processes, Artificial Intelligence and Complex Distillation Systems.

Education

Doctorate, Chemical Engineering
August 2007 – December 2010
Department of Chemical Engineering
Instituto Tecnológico de Celaya
Celaya, Gto. Mexico.
- Thesis: *"Experimental closed loop control of a chemical crystallizer by means of Fuzzy Logic".*
- Advisor: Pedro Quintana Hernández, Ph. D.

M.S., Chemical Engineering
January 2005 – January 2007
Department of Chemical Engineering
Instituto Tecnológico de Celaya
Celaya, Gto. Mexico.
- Thesis: *"Development of a control algorithm for the control of non-isothermal crystallizers by means of fuzzy control".*
- Advisor: Pedro Quintana Hernández, Ph.D.

B. D., Chemical Engineering
 August 1999 – June 2004
Department of Chemical Engineering
Universidad Michoacana de San Nicolás de Hidalgo
Morelia, Mich. México.

Experience

Post-Doctoral Researcher
Renseelaer Polytechnic Institute
Advisor: Juergen Hahn
Troy, NY. USA
October 2012-

Professor
Department of Basic Sciences
Instituto Tecnológico de Celaya
Celaya, Gto. México.
September 2003 – June 2004

Laboratory Assistant
Department of Chemical Engineering
Universidad Michoacana de San Nicolás de Hidalgo
Morelia, Mich. Mexico.
September 2003 – June 2004

General assistant.
KOSA S.A. de C.V.
Zacapu, Mich. Mexico.
June 2002 – August 2002

Conference presentation and Papers

R. Ocampo-Perez, P. A. Quintana-Hernadez, S. Tututi-Avila and S. Hernandez Castro. (2012) "*Non-Linear MIMO control of a continuous cooling crystallizer*". Modeling and simulation in Engineering.

S. Tututi-Avila, P. A. Quintana-Hernadez, F. Lopez-Villareal and E. Bolanos Reynoso. *"Control difuso optimo lineal de un cristalizador cristalizador isotérmico".* Riviera Maya. **AMIDIQ 2011.**

S. Tututi-Avila, P. A. Quintana-Hernadez, V. Rico Ramirez and S. Hernandez Castro. *"Experimental Study of fuzzy control for a continuous crystallizer".* Riviera Maya. **AMIDIQ 2011.**

S. Tututi-Avila, P. A. Quintana-Hernadez, L. I. Salcedo-Estrada and E. Bolanos-Reynoso. *"Control difuso de un cristalizador continuo no-isotérmico usando sembrado"* Huatulco, Oaxaca. **AMIDIQ 2010.**

S. Tututi-Avila, P. A. Quintana-Hernadez, L. I. Salcedo-Estrada and A. J. Castro-Montoya. *"Dinámica y estabilidad del proceso continuo de cristalización no-isotérmico".* Mazatlán, Sinaloa. **AMIDIQ 2009.**

P. A. Quintana-Hernadez, S. Tututi-Avila, V. Rico-Ramirez and E. Bolanos-Reynoso. *"Modelo adimensional del proceso no-isotérmico de cristalización".* Puerto Vallarta, Jalisco. **AMIDIQ 2008.**

P. A. Quintana-Hernadez, S. Tututi-Avila, E. Bolanos Reynoso and L.I. Salcedo-Estrada. *"Desarrollo de un Algoritmo de Control para en Proceso de Cristalización por Enfriamiento Usando Lógica Difusa".* Manzanillo, Colima. **AMIDIQ 2007.**

Submitted papers.
S. Tututi-Avila and A. Jimenez-Gutierrez. *"Control of dividing-wall columns via fuzzy logic" Industrial & Engineering Chemistry Research.*

Chemical engineering meeting attendance
"Process dynamics and control in Chemical Engineering"
"Viabilidad y desarrollo de procesos químicos"
"Optimal Control Theory and applications"
"Simulación de sistemas complejos de destilación"
"Inherently safer design"
 ITC Celaya Gto.

Diploma	**Diploma in experimental chemistry education.** Department of chemical engineering. Universidad Michoacana de San Nicolas de Hidalgo. Morelia, Michoacán. **September 2002-June 2002, lenght 180 Hrs.** **Diploma in sciences "Science in your school"** Department of chemical engineering. Department of biological engineering Universidad Michoacana de San Nicolas de Hidalgo. Morelia, Michoacán. **September 2003-June 2004, lenght 194 Hrs.**
Skills	**Programming Languages:** FORTRAN, Matlab, Visual Basic **Software:** LabView, gPROMS, Aspen, Mathematica, GAMS
Languages	**Spanish (native language), English 85%, French 30%.**