

# CURRICULUM VITAE

## Bambang Pramujati, PhD



### Address

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### EDUCATION:

2004	PhD	Mech. Eng.	University of New Brunswick, Fredericton, Canada
1997	MSc.E	Mech. Eng.	University of Birmingham, England
1993	BSc.E	Mech. Eng.	Sepuluh Nopember Institute of Technology, Surabaya, Indonesia

### WORK EXPERIENCE

08/04 - present	<b>Postdoctoral Fellow and Instructor</b> - Dept. of Mechanical Engineering, UNB, Fredericton <ul style="list-style-type: none"><li>• Predictive Control and Intelligent Sensing - ME 5653 (Winter 2005)</li><li>• Applied Mechanics II : Dynamics - ME 1113 (Fall 2004)</li></ul>
01/00 - 07/05	<b>Research Assistant</b> - Laboratory of Advanced Plastics Manufacturing, Dept. of Mechanical Engineering, UNB, Fredericton.
01/04 - 04/04	<b>Part time instructor</b> for ME 1113 (Applied Mechanics II : Dynamics) - Dept. of Mechanical Engineering, UNB, Fredericton.
01/03 - 04/03	<b>Part time instructor</b> for ME 2613 (System Dynamics) - Dept. of Mechanical Engineering, UNB, Fredericton.
09/98 - 12/03	<b>Teaching assistant</b> - Dept. of Mechanical Engineering, UNB, Fredericton. <ul style="list-style-type: none"><li>• Introduction to Design and Communication - ME 2321</li><li>• Automatic Control 1 - ME 4623</li><li>• Applied Mechanics II : Dynamics - ME 1113</li><li>• System Dynamics - ME 2613</li><li>• Predictive Control and Intelligent Sensors - ME 5653</li><li>• Mechanical Engineering Measurements - ME 3703</li><li>• Optimization and Computer Aided Design - ME 3352</li></ul>
08/97 - 05/98	<b>Instructor</b> - Dept. of Mechanical Engineering, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia. <ul style="list-style-type: none"><li>• Industrial Metrology</li><li>• Manufacturing Processes</li><li>• Engineering Measurement</li></ul>
05/93 - 05/96	<b>Instructor</b> - Dept. of Mechanical Engineering, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia.

- Industrial Metrology
- Manufacturing Processes

LANGUAGES English, Indonesian

CITIZENSHIP Indonesian

COMPUTER SKILLS

Languages : C, C++, HTML

Applications : Matlab, LabWindows, Microsoft Office, Scientific Word

Operating System : Windows 98/2000/XP

PUBLICATIONS

**Refereed Journal Publications**

1. **Pramujati, B.**, Dubay, R., and Samaan, C., Control of cavity pressure during the cooling cycle in plastic injection molding, submitted to *Advances in Polymer Technology* (under review)
2. Dubay, R., **Pramujati, B.**, and Hernandez, M., A generic controller for part surface temperature on a plastic injection molding machine, *Advances in Polymer Technology*, 2006 (accepted for publication).
3. Dubay, R., Kember, G., Lakshminarayan, C.V., and **Pramujati, B.**, Development of characteristic equations and robust stability analysis for SISO move suppressed and shifted DMC, *ISA Transaction*, 2005 (accepted for publication).
4. Dubay, R., Kember, G., Lakshminarayan, C.V., and **Pramujati, B.**, Development of characteristic equations and robust stability analysis for MIMO move suppressed and shifted DMC, *ISA Transaction*, 2005 (accepted for publication).
5. Dubay, R., Kember, G., and **Pramujati, B.**, Well-conditioned model predictive control, *ISA Transactions* 43, 23-32, 2004.
6. **Pramujati, B.**, and Dubay, R., A novel tuning method for predictive control of melt temperature and plastication screw speed in injection molding. *Journal of Injection Molding Technology* 6, 247-258, 2002.

**Refereed Conference Proceedings**

1. **Pramujati, B.**, Dubay, R. and Han, J. G., Injection velocity control in plastic injection molding, Proc. of SPE ANTEC, paper #1852, 734-738, Boston, May 2005.
2. Hernandez, M., Dubay, R. and **Pramujati, B.**, Cavity temperature control on an injection molding machine, Proc. of SPE ANTEC, paper #1195, 714-718, Boston, May, 2005.
3. Dubay, R., **Pramujati, B.**, and Hernandez, M., , Cavity temperature control in plastic injection molding machine, 5<sup>th</sup> Intern. Workshop of Adv. Manuf. Tech., 157-162, London, Ontario May, 2005.
4. **Pramujati, B.**, and Dubay, R., The application of intelligent sensing in model predictive control, CSChE Conference, paper#452, Hamilton, Ontario, October, 2003.
5. **Pramujati, B.**, and Dubay, R., Process identification of barrel temperature control in injection molding: a MIMO approach. Proc. of SPE ANTEC, 3560-3563, Nashville, Tennessee, May, 2003.

6. **Pramujati, B.**, and Dubay, R., A novel tuning method for predictive control of melt temperature and plastication screw speed in injection molding. Proc. of SPE ANTEC, 3892-3896, San Francisco, May, 2002.
7. Dubay, R., and **Pramujati, B.**, Model-based predictive control of a dc motor for screw rotation. Proc. of SPE ANTEC, 3334-3337, Dallas, Texas, May, 2001.

**In preparation**

1. Dubay, R., Pramujati, B. and Han, J, "A new scheme for controlling injection speed in plastic injection molding".