

# TIM ANDERSON, PH.D.

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## Associate Professor of Engineering and Technology Management

### EDUCATION

- Ph.D. 1995 Industrial Engineering, Georgia Institute of Technology
- M.S. 1992 Industrial Engineering, Georgia Institute of Technology
- Bachelor 1990 Electrical Engineering, University of Minnesota

### POSITIONS

- 2002-Present Associate Professor, Engineering and Technology Management, Portland State University
- 1995-2002 Assistant Professor, Engineering and Technology Management, Portland State University

### EXPERIENCE

Dr. Anderson has served as a full-time faculty member since 1995 in addition to consulting and providing technical support for public agencies and industrial companies such as the US Postal Service, Emery Logistics, US West (Qwest), Oki Electronics, and Honeywell.

Dr. Anderson has served as the Program Chair for nine international research conferences with responsibility for peer review of over 3,000 papers. He has authored numerous books and peer-reviewed

journal articles as noted below. His paper on project management in the *IEEE*

*Transactions on Engineering Management* received an award for the best paper of the year.

He is an expert in operations research and management science, including cost probability, simulation and uncertainty analysis, as demonstrated by his teaching the following graduate level engineering courses:

- EMGT 535/635 Advanced Engineering Economics
- EMGT 537/637 Productivity Analysis
- EMGT 540/640 Operations Research
- EMGT 550/650 Manufacturing Systems Engineering
- EMGT 551/651 Manufacturing Systems Management
- EMGT 553/653 Manufacturing Systems Simulation
- EMGT 565/665 Research Methods in Engineering Management
- EMGT 510/610 Probability and Statistics in Engineering Management
- EMGT 590 Engineering Management Synthesis

His course on simulation, which he has taught for many years, includes supervision of applied simulation projects used for decision-making. Similarly, his course in Advanced Engineering Economics covers risk simulation, break-even analysis, and discounted cash flow. In addition, his supervision of doctoral dissertations has included extensive application of simulation and statistics in studying productivity analysis.

### PROFESSIONAL ORGANIZATIONS AND ACTIVITIES – PAST AND PRESENT

- Co-Founder, Board Member, Oregon Productivity & Performance Measurement Assoc.
- INFORMS – Institute for Operations Research and Management Science
- Fellow, American Indian Science and Engineering Society

- IEEE, Institute for Electrical and Electronics Engineers

## SELECTED PUBLICATIONS

### Peer-Reviewed Journal Articles

- Anderson, T.R., Daim, T.U., Kim, J., (2008) "Technology forecasting for wireless communication," *Technovation*, **28**, (9), 602-614.
- Patanakul, P. Milosevic, D. Z., Anderson, T.R., (2007) "A decision support model for project manager assignments," *IEEE Transactions on Engineering Management*, **54** (3).
- Anderson, T.R., Daim, T.U., Lavoie, F.F., (2007) "Measuring the Efficiency of University Technology Transfer," *Technovation*.
- Inman, O. I., Anderson, T. R., Harmon, R. R., (2006) "Predicting U.S. jet fighter aircraft introductions from 1944 to 1982: A dogfight between regression and TFDEA," *Technological Forecasting and Social Change*.
- Anderson, T. R., S. Grosskopf, R. Färe, X. Song, (2002) "Further Examination of Moore's Law with Data Envelopment Analysis," *Technological Forecasting and Social Change*, **69**: 465-477.
- Anderson, T.R., K. B. Hollingsworth, and L. Inman, (2002) "The Fixed Weighting Nature of Cross-Efficiency," *Journal of Productivity Analysis*, **17** (3) 249-255.
- Anderson, T. R. and G. P. Sharp (1997). "A new measure of baseball batters using DEA." *Annals of Operations Research* **73**: 141-155.
- Hollingsworth, K. B., R. Walker and T. R. Anderson (1997). "Using DEA in the examination of the retention of African American males." *Challenge*, **8** (1): 17-25.

### Books

- D. F. Kocaoglu Anderson, T. R., T. U. Daim, Eds. (2008). *Technology Management for a Sustainable Economy*. PICMET. Portland, PICMET.
- D. F. Kocaoglu Anderson, T. R., T. U. Daim, Eds. (2007). *Management of Converging Technologies*. PICMET. Portland, PICMET.
- D. F. Kocaoglu Anderson, T. R., T. U. Daim, Eds. (2006). *Technology Management for the Global Future*. PICMET. Portland, PICMET.
- Anderson, T. R., T. U. Daim and D. F. Kocaoglu, Eds. (2005). *Technology Management: A Unifying Discipline for Melting the Boundaries*. PICMET. Portland, PICMET.
- Kocaoglu, D. F. and T. R. Anderson, Eds. (2003). *Technology Management for Reshaping the World*. PICMET. Portland, PICMET.
- Kocaoglu, D. F., T. R. Anderson, D. Z. Milosevic, T. U. Daim, K. Niwa, T. R. Gullledge, C. Kim and H. Tschirky, Eds. (2001). *Technology Management in the Knowledge Era*. PICMET. Portland, PICMET.
- Kocaoglu, D. F. and T. R. Anderson, Eds. (1999). *Technology and Innovation Management*. PICMET. Portland, PICMET.
- Kocaoglu, D. F., T. R. Anderson, K. Niwa, D. Z. Milosevic and M. J. Gregory, Eds. (1997). *PICMET '97: Innovation in Technology Management*, PICMET.