

## Contents

### Part I

#### Special Issue on Assessment (1)

Guest Editor: Gloria Rogers

M. S. Wald	851	Editorial
Gloria Rogers	852–853	Guest Editorial
M. Liu, P-F. Chang, A. M. Wo, J-Y. Yen, Y-B. Yang and C-H. Wei	854–863	Quality Assurance of Engineering Education through Accreditation of Programs in Taiwan
A. C. Estes, R. W. Welch and S. J. Ressler	864–876	Program Assessment: A Structured, Systematic, Sustainable Example for Civil Engineers
Z. A. Yamayee and R. J. Albright	877–883	Direct and Indirect Assessment Methods: Key Ingredients for Continuous Quality Improvement and ABET Accreditation
L. A. Shay, K. L. Huggins, J. R. S. Blair and B. L. Shoop	884–892	Approaches to Increasing the Efficiency of an Effective Outcome Assessment Process
K. J. Reid and E. M. Cooney	893–900	Implementing Rubrics as Part of an Assessment Plan
T. Flateby and R. Fehr	901–905	Assessing and Improving Writing in the Engineering Curriculum
D. Riley and L. Claris	906–916	Developing and Assessing Students' Ability to Engage in Lifelong Learning
W. Lefevre, J. W. Steadman, J. S. Tietjen, K. R. White and D. L. Whitman	917–925	Objective and Quantitative Outcomes Assessment Using the Fundamentals of Engineering (FE) Examination
J. A. Marin-Garcia, C. Miralles and M-P. Marín	926–935	Oral Presentation and Assessment Skills in Engineering Education

### Part II

#### Contributions in: Engineering Education Research, Computer Studies, Industrial and Systems Engineering, Bioengineering, Biomedical Engineering, Manufacturing Engineering, Electrical and Electronic Engineering

K. W. Jabłokow	936–954	Developing Problem Solving Leadership: A Cognitive Approach
R. Parkhurst, B. M. Moskal, J. Lucena, G. L. Downey, T. Bigley and S. Elber	955–964	Engineering Cultures: Comparing Student Learning in Online and Classroom Based Implementations
W. E. Eder	965–979	Self-Starting Graduates—An Impression of Industry's Needs
A. Zeid and S. Kamarthi	980–989	Best Teaching Practices in Database Courses for Engineering Students
Z. O. Abu-Faraj	990–1011	Bioengineering/Biomedical Engineering Education and Career Development: Literature Review, Definitions, and Constructive Recommendations
A. L. Carrano, M. E. Kuhl and M. M. Marshall	1012–1017	Integration of an Experiential Assembly System Engineering Laboratory Module
E. Gómez, J. Caja, C. Barajas, P. Maresca and M. Berzal	1018–1030	Development and Application of a New Interactive Model for the Teaching of Manufacturing Engineering Technology
R. García-Gil, J. M. Espí and J. Castelló	1031–1039	Computer Simulation of Power Factor Corrected Circuits
J. Dudrik and P. Bauer	1040–1048	New Methods in Teaching of Power Electronics Converters and Devices

