



2011 TIJ Impact Factor Calculation using the Google Scholar Method (Similar to the method used by ISI)

Fall 2010 issue: 11 total papers, 8 of which were used in the calculation (3 are not shown on Google Scholar so their citations are not known; therefore, for accuracy, they were excluded from the calculation)

[\[PDF\] Design and Development of a Durability Testing Machine](#)

[B Shah, S Redkar - TRY ACAMEDICS!, 2010 - tij.org](#)

Abstract This work presents the process of **design** and **development** of a **durability testing machine**, **development** of a statistical **testing** methodology and subsequent reliability **testing** results of surge brake assemblies used in commercial trailers. The surge brake assembly ...

[Cited by 1](#) [Related articles](#) [All 3 versions](#)

1 Finding the **exact maximum impedance resonant frequency** of a **practical parallel resonant circuit without calculus**

[KV Cartwright, E Joseph, EJ Kaminsky - The Technology Interface International ..., 2010](#)

[Cited by 3](#) [Related articles](#) [Cite](#)

[\[PDF\] DEVELOPING A DIGITAL LOGIC DESIGN CURRICULUM IN ELECTRICAL ENGINEERING TECHNOLOGY: BRIDGING THE GAP BETWEEN INDUSTRY AND ...](#)

[N Alaraje, A Sergejev - TRY ACAMEDICS!, 2010 - tij.org](#)

Abstract Hardware Description Language (HDL) and Field Programmable Gate Arrays (FPGA) have revolutionized the way **Digital Logic Design** is taught and implemented. Traditional ways of teaching **logic design** using discrete components, Transistor-Transistor ...

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[\[PDF\] MEETING STUDENT AND INDUSTRY NEEDS THROUGH EXPERIENTIAL LEARNING AND SOFT SKILLS STUDY IN COMPUTER GRAPHICS](#)

J Whittington, KJ Nankivell - TRY ACAMEDICS!, 2010 - tij.org

Abstract Students in a **Computer Graphics** (CG) degree program need a variety of real-world portfolio projects and experiences before graduation in order to prepare them for their careers. One way to incorporate real-world experiences is to use **experiential learning** (EL ...
[Cited by 1](#) [Related articles](#) [All 3 versions](#)

Spring 2010 issue: 24 total papers, 18 of which were used in the calculation (6 are not shown on Google Scholar so their citations are not known; therefore, for accuracy, they were excluded from the calculation

[\[PDF\] Promoting robotics education: curriculum and state-of-the-art robotics laboratory development](#)

A Sergeyev, N Alaraje - *The Technology Interface Journal*, 2010 - enr.nmsu.edu

... **Promoting Robotics Education: Curriculum** and ... This paper describes the **development** of a series

of **robotics** courses and **promotion** of a professional certificate ... Several courses will be **developed**

and implemented to **promote** and enhance **robotics education** in the EET program ...

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[\[PDF\] An Evaluative Approach to Successfully Implementing Six Sigma](#)

B Deruntz, R Meier - *The Technology Interface* ..., 2010 - technologyinterface.nmsu.edu

Abstract Amidst **Six Sigma's** celebrated success and recent expansion into the health care and financial fields, its implementation remains arduous and elusive for nearly fifty percent of the companies that attempt implementation. This paper seeks to provide the most recent ...

[Cited by 2](#) [Related articles](#) [All 5 versions](#) [Cite](#)

[\[PDF\] Development of an Application-Oriented Wireless Communication Networks Course for Engineering Technology Program](#)

J Zhu - *the Technology Interface Journal*, 2010 - enr.nmsu.edu

Abstract: The use of **wireless networks** continues to grow rapidly. New **wireless technologies** and standards are keeping on emerging. To prepare the graduates in **Electrical Engineering Technology** (EET) **program** with the ability to understand and apply **wireless networking** ...

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Comparative Simulation Study of Water Flood

D Li - SPE Asia Pacific Oil and Gas Conference and ..., 2004 - onepetro.org

Secondary oil recovery led by **water flood** accounts for one half of the oil recovered in the United States. In addition, streamline **simulation** is becoming more and more popular these days due to its higher speed compared with finitedifference method. In this paper, a ...

[Cited by 1](#) [Related articles](#)

[PDF] Scorbot ER-III Robot

S Moslehpour, C Odom, T Barrett... - The Technology Interface ..., 2010 - et.nmsu.edu

Abstract-The purpose of this project is to develop a new control system for the **Scorbot ER III robot**. The previous method of programming this **robot** was to use the control software called SCORBASE, an old DOS based program that was capable of controlling the **robot** as well ...

[Cited by 1](#) [Related articles](#) [All 3 versions](#)

[PDF] A Wireless Sensor Network Communication Model for Automation of Electric Power Distribution

M Muthukumar, N Sureshkumar... - proc. 2008 IAJC-IJME ..., 2009 - ijme.us

Abstract **Automation** of **electric power distribution** in a cost-efficient and reliable manner can be accomplished by complete **automation** of the load dispatch centers and substations on a large scale. For efficient load balancing among the feed lines, a continuous monitoring of ...

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Winter 2009 special issue: 24 total papers, 21 of which were used in the calculation (3 are not shown on Google Scholar so their citations are not known; therefore, for accuracy, they were excluded from the calculation

[PDF] Integrating Chinese Students into an American Capstone Engineering Technology Design Course

RP Blust, SJ Schneider - Proceedings of The, 2008 - engr.nmsu.edu

Abstract In 2006, the **Engineering Technology** Department at the University of Dayton (UD) entered **into** an articulation partnership with Shanghai Normal University (SHNU). This agreement enabled the **Chinese students** at SHNU to complete a Bachelor of Science in ...

[Cited by 1](#) [Related articles](#) [All 6 versions](#)

[PDF] Building information modeling: an academic perspective

V Sah, C Cory - Proc., IAJC- - IJME International Conference, 2008 - tijj.org

Abstract: The last decade has seen a tremendous rise in object oriented and parametric **modeling** technology. The rapid rise has spiked interest in both the **Academic** world and the AEC industry. Several Construction firms realizing the potential for growth using this ...

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[\[PDF\] Automatic Identification/RFID Course and Equipment for Teaching and Research](#)

S Guccione, U Marjanovic - Proceedings of The 2008 IAJC-IJME ..., 2008 - ijme.us

Abstract With the increasing implementation of radio frequency **identification (RFID)** in the supply chain, engineering technology and industrial technology degree programs should incorporate or begin to incorporate **course** work in **automatic** identification (AutoID) and ...

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[\[PDF\] Learning Aerospace Design and Manufacturing Processes to Demonstrate ABET Program Objectives](#)

B Vlasman, S Dubikovsky, J Schwartzkopf... - Technology Interface ..., 2009 - et.nmsu.edu

Abstract-A new course was created in the fall of 2007 as part of a curriculum change seeking engineering accreditation from the Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (**ABET**) for Purdue University's ...

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[\[PDF\] Estimating Position and Orientation of an Unmanned Guided Vehicle with Ultrasound and Radio Frequency Sensing](#)

R Thamma - Technology Interface Journal, 2009 - tijj.org

Abstract: Conventional method of finding location of moving an **Unmanned Guided Vehicle (UGV)** in pre-defined area is by Distance Measurement Equipment (DME) based on **Ultrasound** and triangulation technique. In many systems the **ultrasound** transmitter ...

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[\[PDF\] Synchronous replication of remote storage](#)

T Mirzoev - Journal of Communication and Computer, 2009 - tijj.org

Abstract-**Storage replication** is one of the essential requirements for network environments. While many forms of Network Attached **Storage (NAS)**, **Storage Area Networks (SAN)** and other forms of network **storage** exist, there is a need for a reliable **synchronous storage** ...

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[\[PDF\] Hand Tremor Detection via Adaptive Empirical Mode Decomposition and Hilbert-Huang Transform](#)

JZ Zhang, BT Price, RD Adams, K Burbank... - Proceedings of the 2008 ..., 2008 - ijme.us

Abstract Involuntary human **hand** motions, or tremors, are normally regarded as a non-stationary process. Due to its nonlinear and non-stationary nature, we need the amplitude and frequency information of a **tremor** at a specified time for accurate and real-time ...

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Fall 2009 issue: 18 total papers, 16 of which were used in the calculation (2 are not shown on Google Scholar so their citations are not known; therefore, for accuracy, they were excluded from the calculation

[\[PDF\] Teaching an Applications-Based Radio Frequency Identification Class](#)

K Berisso - 2009 - technologyinterface.nmsu.edu

Abstract: **Radio frequency identification (RFID)** has taken the supply chain industry by storm. One result is an ever increasing number of university **classes** and programs that are trying to integrate the technology into already existing curriculums. There are presently hundreds ...

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[\[PDF\] Virtual Reality Mathematic Learning Module for Engineering Students](#)

Y Wang, S Cui, Y Yang, J Lian - Technology Interface Journal, 2009 - engr.nmsu.edu

Abstract: **Mathematic** courses typically are considered as hard courses by college **students** and exhibit high failure rate. As the critical foundation of all **engineering** and science areas, such courses usually are pre-requisite courses in **engineering** curricula. The high failure ...

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[\[PDF\] Incorporating industry-style design into course projects in undergraduate engineering technology courses](#)

G Thomas, ER Thomas - The Technology Interface ..., 2009 - technologyinterface.nmsu.edu

Abstract: Job requirements for **engineering** graduates have changed to meet the demands of today's rapidly changing and highly competitive business environment. Employers now require **engineering** graduates to be well prepared to cope with the demands of the work ...

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[\[PDF\] Design Projects in a Programmable Logic Controller \(PLC\) Course in Electrical Engineering Technology](#)

L Guo, R Pecan - ASEE Annual Conference & Exposition, 2008 - et.nmsu.edu

Abstract-A **Programmable Logic Controller (PLC)** is a specialized computer used for the **control** and operation of manufacturing process and machinery. A junior/senior level **PLC course** in a four-year **electrical engineering technology** institution mainly covers the ...

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[\[PDF\] Self powered fitness equipment](#)

F Yildiz, MF Fahmy - Technology Interface International Journal, 2009 - engr.nmsu.edu

Abstract: Conventional electrochemical batteries power most of the portable and wireless electronic devices that are operated by electric power. In the past few years, electrochemical batteries and energy storage devices have improved significantly. However, battery ...

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[\[PDF\] Design and Implementation of a Digital Parking Lot Management System](#)

X Li, UK Ranga - [The Technology Interface Journal Fall, 2009 - engr.nmsu.edu](#)

Abstract-This project aims at implementing a **digital vehicle management system** using radio frequency identification (RFID) technology. This **digital vehicle management system** will enhance the utilization of **parking** space and help user check the availability of the **parking ...**

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[\[PDF\] Conceptual development of an introductory lean manufacturing course for freshmen and sophomore level students in industrial technology](#)

A Mcleod - [Technology Interface Journal, 2009 - engr.nmsu.edu](#)

Abstract: An **introduction to lean manufacturing** is one of the core **courses** taken by **students** majoring in **Industrial Technology** at Purdue University. The main objective of the **course** is to familiarize **students** with the most prominent operations management strategy (**lean ...**

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[\[PDF\] Applied lean thinking: general usage principles](#)

C Stacks, J Ulmer - [Technology Interface Journal, 2009 - technologyinterface.nmsu.edu](#)

Abstract **Lean thinking** has been on the leading front for manufacturing automobiles since the advent of Henry Ford's assembly lines in the early 1900's. The application of **lean thinking** is not limited only to the production of cars and trucks; its **principles** can be ...

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[\[PDF\] Development of a global web-based industrial process control laboratory for undergraduate and graduate engineering technology education](#)

M Al-Khedher, DB McDonald - [Proceedings of the 2008 IAJC-IJME ..., 2008 - ijme.us](#)

Abstract Web **technology** provides powerful, online, educational tools for teaching and demonstration of automated processes. This paper describes a fundamental **global** initiative to establish **laboratory** cooperation based upon integrated **web-based process control** for ...

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[\[PDF\] A remote control project to enhance undergraduate students' interest and knowledge in industrial automation](#)

A Eslami, A Williams, L Lapat, K Krauss... - [Proc., IAJC-IJME ..., 2008 - ijme.us](#)

Abstract The objective of this **project** is to develop and establish a user-friendly online operation of a remotely **controlled** Programmable Logic **Controller** (PLC) unit, utilizing the Internet and the World Wide Web. This effort provides **students** with valuable hands-on ...

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[\[PDF\]](#) **Study of Electrical Power Systems Using LabVIEW Virtual Instruments (VI) Modules**

NK Swain, JA Anderson, RB Korrapati - IAJC-IJME International Conference, 2008 - [ijme.us](#)

Abstract The **study of electrical power systems** requires a good background on advanced mathematics. But many engineering and technology students lack this required background, and as a result, it is difficult to teach **electrical power systems** in these programs. A ...

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[\[BOOK\]](#) **A comparison of instructional methods for improving the spatial-visualization ability of freshman technology seminar students**

CW Ferguson, A Ball, W McDaniel, R Anderson - 2008 - [ijme.us](#)

Abstract The purpose of the current pilot study was to investigate teaching **methods** for **improving spatial visualization (SV) ability**. Specifically, this pilot study sought to determine the effects of mechanical dissection manipulatives on **improving** the SV **ability** of **freshmen** ...

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[\[PDF\]](#) **Transformational paradigm for engineering and engineering technology education**

[E Barbieri](#), [W Fitzgibbon](#) - ... of the 2008 ..., 2008 - [dissertation.readinesstechnology](#). ...

... **Transformational Paradigm for Engineering and Engineering Technology Education ... Technology**

programs can play an important role in a new **educational paradigm** for **Engineering** ... that is close

to the product improvement, manufacturing, and **engineering** operational functions. ...

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[\[PDF\]](#) **Engineering Technology Education: A National Picture**

P Weinsier, DJ Brown - Proceedings of the 2008 IAJC-IJME International ... - ijme.us

Abstract **Engineering technology** (ET) programs across the nation have been experiencing declining enrollment, population shifts, image problems, and an influx of students with increasingly weakened academic skill sets necessary for achievement. The following is a ...

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2011 Impact Factor for TIIJ= 82/80=1.025

Journal Impact Factor

The journal Impact Factor is the average number of times articles from the journal published in the past two years have been cited in the JCR year.

The Impact Factor is calculated by dividing the number of citations in the [JCR year](#) by the total number of articles published in the two previous years. An Impact Factor of 1.0 means that, *on average*, the articles published one or two year ago have been cited one time. An Impact Factor of 2.5 means that, on average, the articles published one or two year ago have been cited two and a half times. The citing works may be articles published in the same journal. However, most citing works are from different journals, proceedings, or books indexed by Web of Science.

The formula to determine the 2011 impact factor for a journal would be calculated as follows:

A = the number of times articles published in the journal during 2009-2010 were cited by other journals or the same journal during 2011

B = the number of articles or reviews that were published in the journal during 2009-2010

2011 Impact factor for a journal = A/B
