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International Conference on Technology and Vocational Teacher (ICTVT-2018)

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ICTVT

INTERNATIONAL CONFERENCE ON TECHNOLOGY AND VOCATIONAL TEACHERS

The 2nd ICTVT 2018:

Innovation and Development of Technology for Vocational Education



Organized by:
Faculty of Engineering
Yogyakarta State University, Indonesia.
November 15th, 2018



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Preface

I warmly welcome you to The Second International Conference on Technology and Vocational Teachers (ICTVT), Yogyakarta, 15 November 2018. It's a great pleasure on behalf of ICTVT committee to have you today to participate and to share your studies, ideas, knowledge and experience in this conference. Through ICTVT 2018, we would like to engage with all of you in an open and constructive dialogue about **Innovation and Development of Technology for Vocational Education**.

The recent trend of automation and data exchange in manufacturing technologies, or Industry 4.0, assists companies to identify and implement Industry 4.0 scenarios, such as Interoperability, Information Transparency, Technical Assistance, and Decentralized Decisions.

This new industry era needs some development and innovation for several related fields. Innovation and development of industry 4.0 stimulate and demand the development of education, especially vocational education. Therefore, this conference aims to explore the role and potential of technology for vocational education as the backbone of the industry era 4.0.

We are honored to have outstanding speakers with us today. All three are esteemed specialists in the field. We are grateful for the time and effort they took to share their works and experiences.

There are 67 papers have been submitted at the 2th ICTVT but only 38 of these have been accepted for the presentation after a blind peer review process and will be presented at 5 parallel oral sessions. I sincerely thank the program committee members for their thorough and timely reviews of the papers.

Last but not least, I would like to thank the organizing committee who work so hard to prepare all aspects of the conference. The success of this conference depends on their commitment, dedication and generous contribution.

It has been a great privilege for me to serve as the General Chair of ICTVT 2018 and it is my hope that you find the conference stimulating, fulfilling and enjoyable. I thank you for your support and your attendance, and wish you a pleasant experience in ICTVT 2018.

Salam

Moh. Adam Jerusalem, Ph.D.

Conference Chair of ICTVT

Words from the Rektor

Assalamu'alaikum Warahmatullah Wabarakatuh.

May peace and god's blessings be upon all of us.

Entering the industrial revolution 4.0 era, higher education is demanded to prepare about one hundred and thirteen million skilled workforces. This demand has led the Indonesian government to promote the five priority industries to compete the future of work in 2030, including food and beverage, textile & apparel, automotive, electronic, and chemical industries. All those five priorities require strong support in the preparation of qualified workforce from relevant educational institutions, particularly vocational education institutions in higher education.

As one of the pioneer universities of vocational education in Indonesia, UNY has committed to dedicate more efforts and energy to help foster the development of education, especially vocational education to face the industrial revolution 4.0 era. To give more contributions, UNY hosts *The International Conference on Technology and Vocational Teachers (ICTVT) 2018*, as a forum to share research findings, best practices, and ideas in regard to **innovation and development of technology for vocational education**.

By having the theme of "Innovation and Development of Technology for Vocational Education", it is expected that this forum enlightens vocational teachers and practitioners in facing the challenge of utilizing and integrating technologies into their instructional process as well as designing useful learning environments in the context of real world activities for vocational students. This forum is also projected to encourage researchers, vocational teachers and students to present and publish their research findings further in international reputable journals.

Finally, my appreciation and gratitude are for all committee members and those who have been working hard in preparing all important aspects of this conference. Our special thanks also go to all the invited speakers and parallel speakers who have been willing to share ideas in ICTVT 2018.

Wassalamu'alaikum Warrahmatullah Wabarakatuh.

Yogyakarta, 6 November 2018
Rector of Universitas Negeri Yogyakarta
Prof. Dr. Sutrisna Wibawa, M.Pd.

Peer Review General Policies

Papers will be rejected as refereed paper if a sub-mission deadline is missed or if maximum capacity has been reached. Paper will then publish as an unrefereed paper at the ICTVT website (<http://ictvt2018.uny.ac.id>), we only received is allowed in general.

1. Paper will reject if submission or correction deadline is missed
2. Each paper shall have two reviewers
3. A reviewer shall not know the identity of another reviewer assigned to the paper
4. A reviewer shall not contact the author directly concerning the paper
5. Reviewer shall not make any personal remarks or comments that may betray their identity when entering the instructions for requested correction/revision of the paper
6. Reviewer must not referee papers of which they are author or co-authors
7. There are only 3 possible outcomes from reviewers in first cycle:
 - a. Excellent
 - b. Solid
 - c. Accepted if possible
 - d. Rejected if possible
 - e. Reject
8. There are 2 possible outcomes from reviewers in second cycle:
 - a. Accepted
 - b. Rejected
9. Decisions about paper rejection are final

Peer Review Acceptance Criteria

All papers published in this volume of IOP Conference Series: Materials Science and Engineering have been peer reviewed through processes administered by the proceedings Editors. Reviews were conducted by expert referees to the professional and scientific standards expected of a proceedings journal published by IOP Publishing. Here are the criteria:

1. The quality of content must have solid work and decent contribution
2. The paper must at least have significant for the theory and practices
3. Paper must discuss one step forward from the ordinary discussion
4. The paper should comply the theme that has been given
5. The paper quality has to be well written

Question posed to referee in review module

Reviewer must acknowledge they have read the referee guidance statements. Reviewer answer Yes/No to the following queries

1. Is the quality of content meet the requirement?
2. Is the significance for theory or practices meet the requirement?
3. Is there any innovative aspect in the paper?
4. Is the paper's theme align with the conference theme?
5. Is the paper present in proper way?

Outcome of the Referee Dialogue

1. If answer to 1) 2) and 3) are negative (no) then paper is uncorrectable (automatic rejection)
2. If answer to 1) – 5) are positive (yes) then paper is automatic accepted
3. If answer to 1) – 3) are positive but either 4) or 5) is negative then two cases exist
 - a. Easy/straight forward to correct then: revise
 - b. Difficult to correct then: reject

Reviewer then enters final appraisal

Question: Is the paper acceptable for publication in its present form?

Answer is limited to three possibilities (entered by the reviewer)

1. Yes (accept)
2. No, but easily corrected (request author to make revision)
3. No and uncorrectable (reject)

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