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1. Van Ngoc Sang, Tuyet Nhung Buon Krong, Mohamad Bin Bilal Ali. “*Designing Cham Font Unicode Standard and Cham Keyboard*”. International Journal of Engineering & Technology, 7 (2.29) (2018) 853-857. DOI: 10.14419/ijet.v7i2.29.14271. Science Publishing Corporation (SPC).


International Journal of Engineering & Technology, 7 (2.29) (2018) 853-857



International Journal of Engineering & Technology

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Research paper



Designing Cham Font Unicode Standard and Cham Keyboard

Tuyet Nhung Buon Krong^{1*}, Van Ngoc Sang², Mohamad Bin Bilal Ali³


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Designing Cham Font Unicode Standard and Cham Keyboard

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 **Mohamad Bin Bilal Ali**
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"Designing Cham Font Unicode Standard And Cham Keyboard"

in the ASIA International Multidisciplinary Conference 2017

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At

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Ref: AIMC-2017-STE877

Date: 9th October 2017

Dear Van Ngoc Sang, Tuyet Nhung Buon Krong; Mohamad Bin Bilal Ali

I am pleased to inform you that your full paper entitled "**Designing Cham font Unicode Standard and Cham keyboard**" has been accepted for presentation in ASIA International Multidisciplinary Conference (AIMC-2017) after peer review by the editorial board (AIMC 2017). The full paper will be published in Advance Science Letters SCOPUS Indexed journal which is listed in the conference website.

For future correspondence, use this **AIMC-2017-STE877** as reference.

If you have any queries, feel free to contact any of the undersigned accordingly.



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ASIA International Multidisciplinary Conference

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Dear Van Ngoc Sang

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Conference Fee for the article "Designing Cham font Unicode Standard and Cham keyboard"	RM350



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2. Van Ngoc Sang, Mohamad Bin Bilal Ali. “*Designing Cham Fonts for Windows and Macintosh*”. *Advanced Science Letters*, ISSN: 1936-6612 (Print): EISSN: 1936-7317. Vol. 20, No. 10-12 October 2014, pp. 1833- 1836 (4). [doi: <http://dx.doi.org/10.1166/asl.2014.5639>]. Publisher: American Scientific Publishers.

Designing Cham Fonts for Windows and Macintosh

Oct 2014 · J. Comput. Theor. Nanosci. · 1833-1836

V N Sang · A M Bilal

Sang VN, Bilal AM. Designing Cham Fonts for Windows and Macintosh. *Advanced Science Letters*, ISSN: 1936-6612 (Print): EISSN: 1936-7317. Vol. 20, No. 10-12 October 2014, pp. 1833-1836 (4). [doi: <http://dx.doi.org/10.1166/asl.2014.5639>]. Publisher: American Scientific Publishers. 2014.



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162 - Designing of Cham font for Windows and Macintosh operation systems

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For and on behalf of

The 2nd International Conference on Internet Services Technology and Information Engineering 2014 (ISTIE 2014)



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3. Van Ngoc Sang, Mohamad Bin Bilal Ali. “*Preserving Cham Font through Online Conversion Application*”. International Education Studies. ISSN 1913-9020 (Print). ISSN 1913-9039 (Online). Vol. 8, No. 13 July 2015. [DOI: <http://dx.doi.org/10.5539/ies.v8n13p60>]. Publisher: Canada Center of Science and Education.

Preserving Cham Font through Online Conversion Application

Jul 2015

V N Sang · A M Bilal

Sang VN, Bilal AM. Preserving Cham Font through Online Conversion Application. International Education Studies A SCOPUS Journal ISSN 1913-9020 (Print) ISSN 1913-9039 (Online) Vol 8, No 13 July 2015 [doi: 105539/iesv8n13p60] Publisher: Canada Center of Science and Education. 2015.



4. Van Ngoc Sang, Mohamad Bin Bilal Ali, Noor Dayana Abd Halim. "Exploring the Preferable Cham script to build the Conversion Application for Cham Latin to Cham Script". E-ISSN 2289-6996 (print). Vol 9, No. 1-3, December 2016. Published by Sains Humanika.

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
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3. Here we also attach the lists of correspondence author's name for your referencce. We really appreciate for your kind of contribution.

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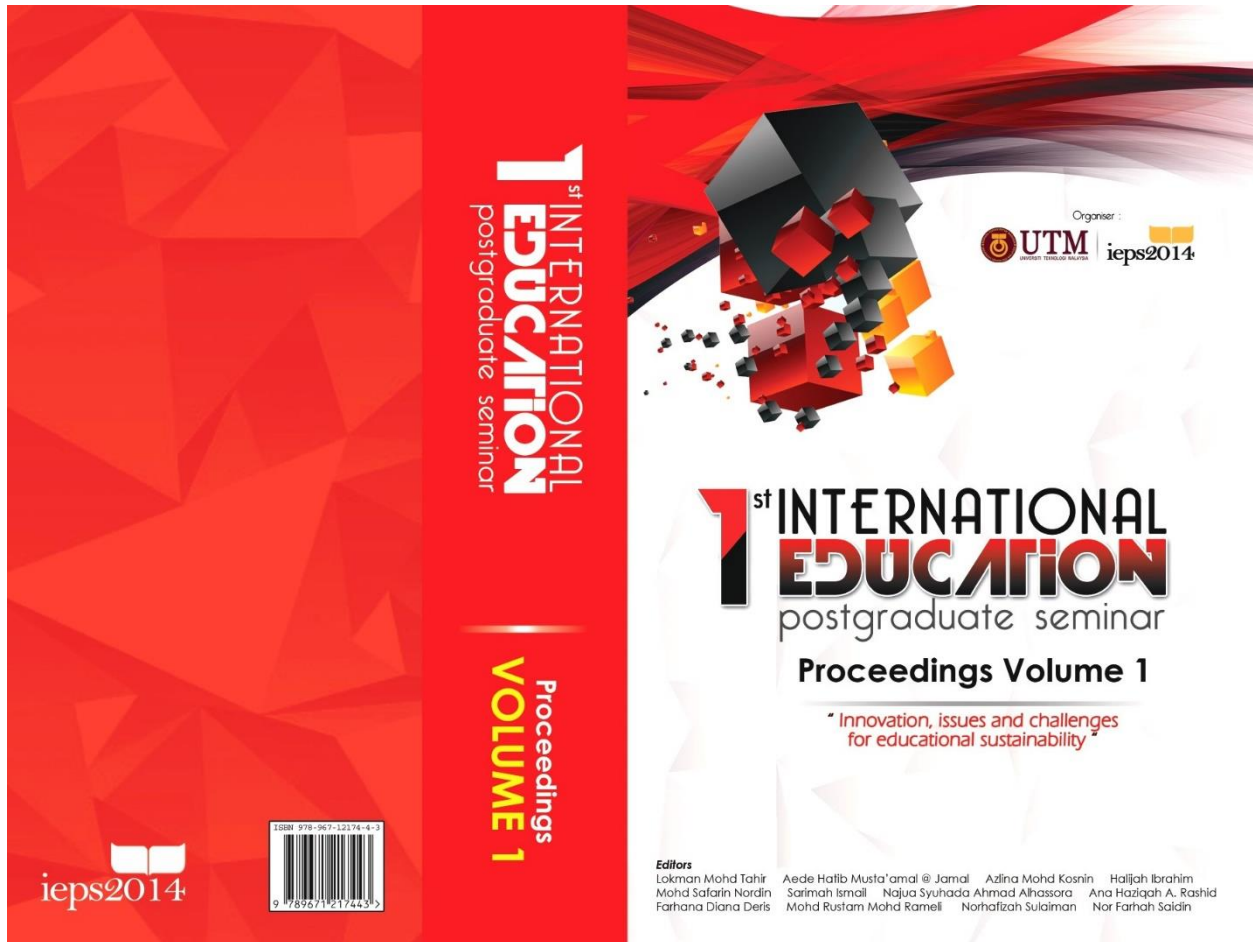


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6. Van Ngoc Sang, Mohamad Bin Bilal Ali. *“Technology Applications in Cham Language Conservation”*. The 1st International Education Postgraduate Seminar (IEPS2014). Proceedings Innovation, Issues and Challenges for Educational Sustainability, Volume I, 23-24 November 2014. ISBN 978-967-12174-4-3. Published by: Faculty of Education, Universiti Teknologi Malaysia.



7. Van Ngoc Sang, Mohamad Bin Bilal Ali, Noor Dayana Abd Halim. *“Building Cham - Vietnamese Electronic Dictionary”*. The 2nd International Education Postgraduate Seminar (IEPS2015). Universiti Teknologi Malaysia (UTM). Malaysia, 20-21, December 2015. Special Edition April 2016. ISSN 2289 -9375. Published by Jurnal Pendidikan Nusantara.



RUJUKAN KAMI : IEPS 2015/ 19-10-15 (92)

RUJUKAN TUAN :

Notice of Acceptance

Abstract Code:92

19th OCTOBER 2015

Dear Author/s:
Van Ngoc Sang (Presenter), Assoc. Prof. Dr. Mohamad Bilal Ali

Warmest Greetings.
Many thanks for your submission.

We are pleased to inform you that your abstract entitled **“BUILDING CHAM - VIETNAMESE ELECTRONIC DICTIONARY”** has been accepted for oral presentation in 2nd International Education Postgraduate Seminar (IEPS-2015), at Pulai Spring Resort, Johor Bahru, Malaysia to be held on **20-21st December 2015**.

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8. Van Ngoc Sang, Nguyen Thuy Van. “*Student Perception of Using Project-Based Learning (PjBL): A Case Study in Universiti Teknologi Malaysia (UTM)*”. The 7th International Conference on University Learning and Teaching (InCULT 2014). Proceedings: Educate to Innovate. ISBN: 978-981-287-663-8 (Print). ISBN: 978-981-287-664-5 (Online). Pp. 387-397, November 24, 2015. [DOI 10.1007/978-981-287-664-5_31]. Published by Springer.



Singapore, 24 November 2015

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Proceedings: Educate to Innovate

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Shireena Basree Abdul Rahman, Universiti Teknologi MARA, Faculty of Education, Asian Centre for Research on University Learning and Teaching, Malaysia

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9. Van Ngoc Sang, Mohamad Bin Bilal Ali, Noor Dayana Abd Halim. *“Exploring the Preferable Keyboard Platform to Design the Cham Fonts for Windows and Macintosh”*. The International Conference on Science, Engineering, Management and Social Science 2016 (ICSEMSS2016). Multi-disciplinary Research towards Global Challenges. Universiti Teknologi Malaysia (UTM). Malaysia, 6-8 October 2016.



Our Ref: ICSEMSS2016-295

18th August 2016

NOTIFICATION OF ABSTRACT ACCEPTANCE

Dear SANG VAN NGOC*, Education Technology; BILAL Mohamad Bin Ali. EDUCATION TECHNOLOGY; Noor Dayana Abd Halim, Universiti Teknologi Malaysia

Congratulations!

We are pleased to inform you that your abstract titled *“EXPLORING THE PREFERABLE KEYBOARD PLATFORM TO DESIGN THE CHAM FONTS FOR WINDOWS AND MACINTOSH”* has been accepted for presentation at the first International Conference on Science, Engineering, Management and Social Sciences (ICSEMSS) 2016. Please find attached reviewers' comments.

Kindly prepare the full paper by using ICSEMSS 2016's template as available in the conference website and please submit the full paper with your proof of payment to icsemss@gmail.com before or on 21st September, 2016.

Please quote your Paper ID whenever you contact the ICSEMSS 2016 conference secretariat and check the conference webpage at <http://www.utm.my/icsemss2016> for program updates and announcements.

Thank you for your submission and we are looking forward to meeting you at ICSEMSS 2016.

Yours sincerely,

Dr. Yakubu Aminu Dodo
Scientific Committee Coordinator
ICSEMSS 2016.

International Student Center (ISC) - Level 2, Block S19 - Universiti Teknologi Malaysia - Skudal, Johor Bahru, Malaysia
www.utm.my/icsemss2016/



10. Van Ngoc Sang, Mohamad Bin Bilal Ali, Noor Dayana Abd Halim. “*Building Cham - Vietnamese Electronic Dictionary*”. The 2nd International Education Postgraduate Seminar (IEPS2015). On Inspiring Young Researchers. Universiti Teknologi Malaysia (UTM). Malaysia, 20-21, December 2015.



11. Van Ngoc Sang, Mohamad Bin Bilal Ali. “*Designing Application for Cham Font Conversion*”. The 5th International Graduate Conference on Engineering, Science and Humanities (IGCESH 2014). Universiti Teknologi Malaysia (UTM). Malaysia, 19-21, August 2014.



Certificate of Appreciation

This certificate is awarded to

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Presenter

at the

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19 – 21 August 2014

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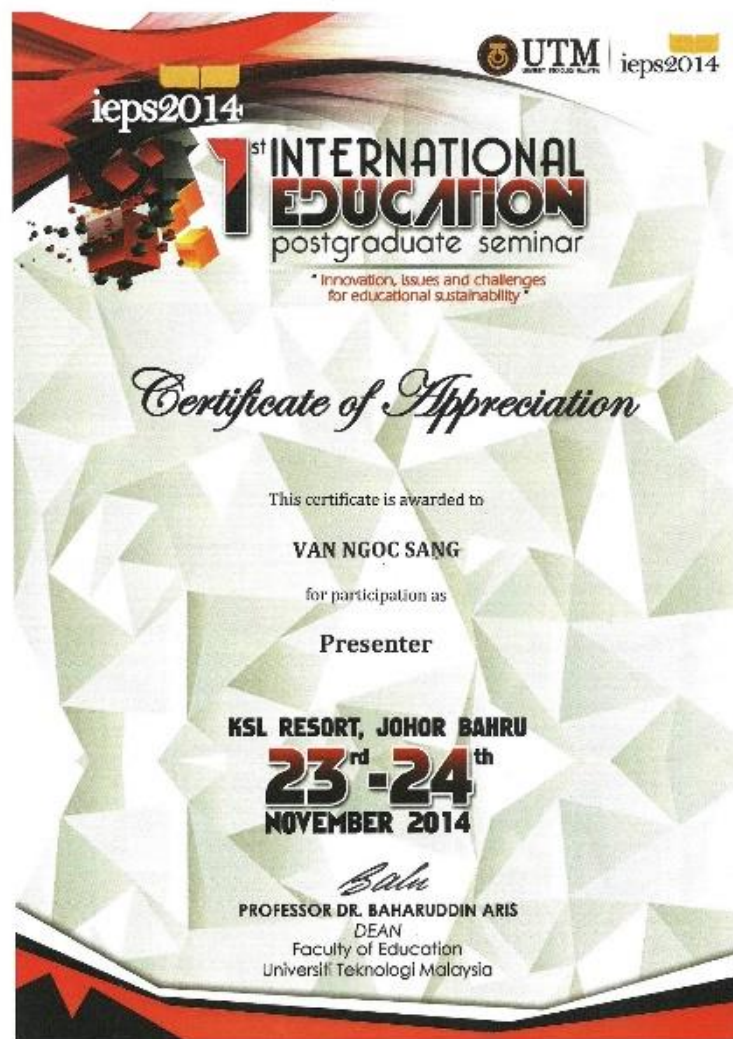
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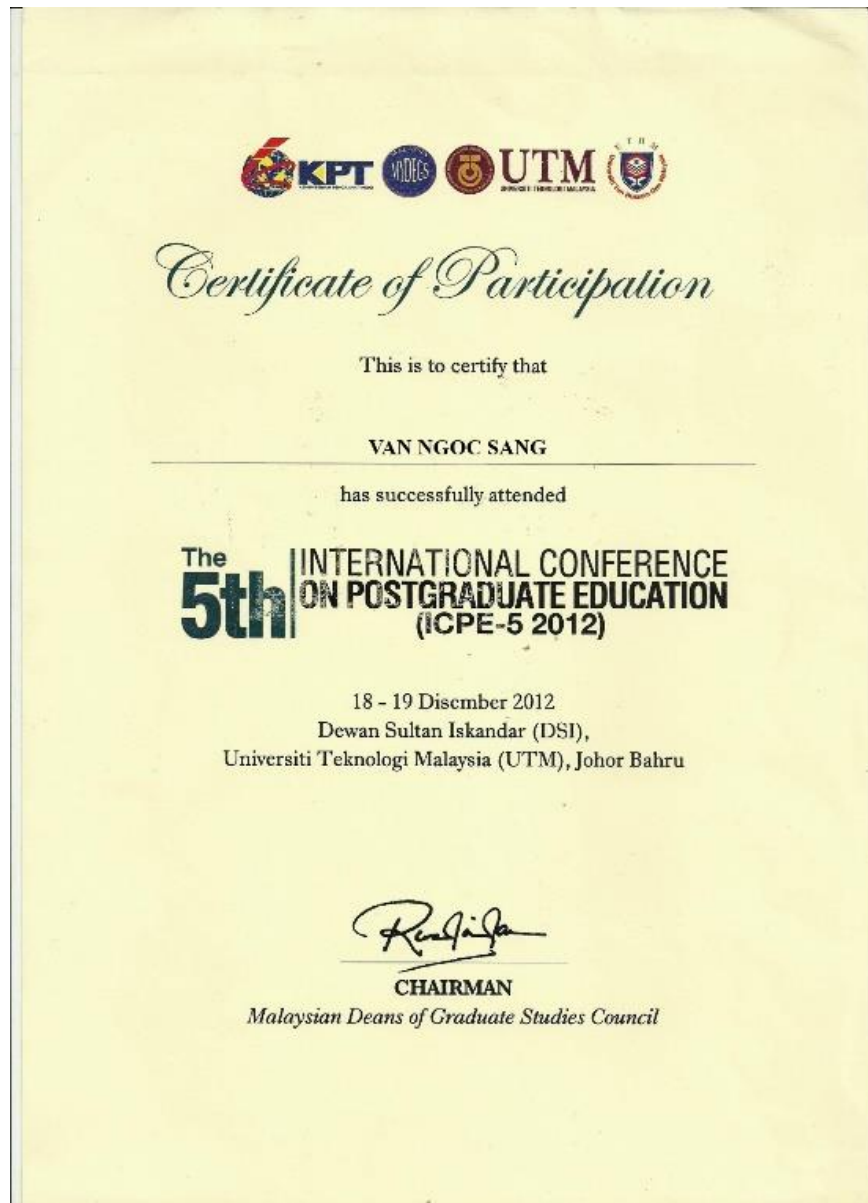
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12. Van Ngoc Sang, Mohamad Bin Bilal Ali. "Technology Applications in Cham Language Conservation". The 1st International Education Postgraduate Seminar (IEPS2014). Universiti Teknologi Malaysia (UTM). Malaysia, 23-24, November 2014.



13. Van Ngoc Sang, Mohamad Bin Bilal Ali. “*Design the Rumi Campa system through the Rumi EFEO system*”. The 5th International Conference on Posgraduate Education (ICPE-5 2012). Malaysia, 18-19 December, 2012.



14. Van Ngoc Sang, Mohamad Bin Bilal Ali, Noor Dayana Abd Halim. "Study of Machine Translation to Build Pattern-based Model for Vietnamese – Cham". The 2nd International Education Postgraduate Seminar (IEPS2015). On Inspiring Young Researchers. Universiti Teknologi Malaysia (UTM). Malaysia, 20-21, December 2015. Proceedings.



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Johor, Malaysia

RUJUKAN KAMI : IEPS 2015/ 18-10-15 (05)

RUJUKAN TUAN :

Notice of Acceptance

Abstract Code:5

18th OCTOBER 2015

Dear Author/s:
Sang Van Ngoc (Presenter), Assoc. Prof. Dr. Mohamad Bilal Ali

Warmest Greetings.
Many thanks for your submission.

We are pleased to inform you that your abstract entitled "**Study of Machine Translation Model to Build a Pattern-based Translation for Vietnamese – Cham**" has been accepted for oral presentation in **2nd International Education Postgraduate Seminar (IEPS-2015)**, at Pulau Spring Resort, Johor Bahru, Malaysia to be held on **20-21st December 2015**.

For confirm registration, kindly pay your registration fee as per your category listed in seminar website.

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Thank you very much for your kind participation. Please do not hesitate to contact us if you need assistance.

Best regards,
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15. Van Ngoc Sang, Mohamad Bin Bilal Ali. "Designing of Cham font for Windows and Macintosh operation systems". The 2nd International Conference on Internet Services Technology and Information Engineering 2014 (ISTIE 2014). Indonesia, 31 May - 01 June, 2014.



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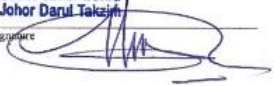
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Date 27/3/2014

16. Van Ngoc Sang, Buon Krong Tuyet Nhung. “Ung dung Cong nghe Thong tin trong bao ton ngon ngu Cham va cac dan toc thieu so o Tay Nguyen Viet Nam”. [Conservation Cham language and Indigenous language in Tay Nguyen by IT application]. Hoi thao Quoc te ve Viet Nam va Dong Nam A: “Hoi nhap va phat trien”. [The International Conference on “Vietnam and Southeast Asia: Integration and Development”]. Vietnam, 5-6, December 2015.



17. Van Ngoc Sang, Mohamad Bin Bilal Ali, Buon Krong Tuyet Nhung. “*Bao ton chu Cham qua ung dung chuyen tu Cham truc tuyen*”. [Preserving Cham script through online conversion application]. Hoi thao Quoc te ve Viet Nam va Dong Nam A: “Hoi nhap va phat trien”. [The International Conference on “Vietnam and Southeast Asia: Integration and Development”]. Vietnam, 5- 6, December 2015.

**THE INTERNATIONAL CONFERENCE ON
“VIETNAM AND SOUTHEAST ASIA: INTEGRATION AND DEVELOPMENT”**

CÁC CÔNG TRÌNH TỬ ĐIỂN ĐIỆN TỬ ĐÃ CÔNG BỐ

**TÁC GIẢ: 1. TS. VÂN NGỌC SÁNG
2. TS. BUÔN KRÔNG TUYẾT NHUNG**

CƠ QUAN: TRƯỜNG ĐẠI HỌC TÂY NGUYÊN

1. TỬ ĐIỂN ĐIỆN TỬ JRAI – VIỆT

- Mục đích công trình: Số hóa tử điển quý của tác giả trên cơ sở công trình “Tự điển Việt – Jrai” do Ksor Yai (chủ biên), Hoàng Đạt, Phan Đắc Thành, Ngô Văn, biên soạn lần đầu tiên xuất bản vào năm 2005.
- Các chức năng chính của tử điển: Nhập từ mới, sửa từ đã có, xóa từ đã có, cập nhật từ điển tra cứu từ, xem danh sách các từ đã tra, quay về từ trước, tra nhiều từ một từ, thay đổi tùy chọn, mã hóa dữ liệu và cài đặt, phát âm.
- Kết quả ứng dụng: được công bố vào năm 2005. Công cụ hỗ trợ tra cứu phát âm từ ngữ tiếng “Mường – Việt – Mông – Việt” phục vụ cho công tác nghiên cứu, biên soạn tài liệu dạy và học tiếng Mông.
- Địa chỉ ứng dụng: Chuyên gia ứng dụng cho UBND tỉnh Đắk Nông, Sở Khoa học và Công nghệ, Trường Đại học Tây Nguyên và chuyển giao ứng dụng ra cho phát thanh – Truyền hình tiếng Jrai cho tỉnh Mông Nai Việt Nam thường trú tại Đắk Lắk, Sở Giáo dục – Đào tạo tỉnh Đắk Nông, các trường mầm non tại các xã của nhà nghiên cứu, các nhân có nhu cầu học tập, giảng dạy tiếng Mông.
- Giao diện tử điển điện tử Việt – Mông, Mông – Việt

2. TỬ ĐIỂN ĐIỆN TỬ MÔNG – VIỆT, VIỆT – MÔNG

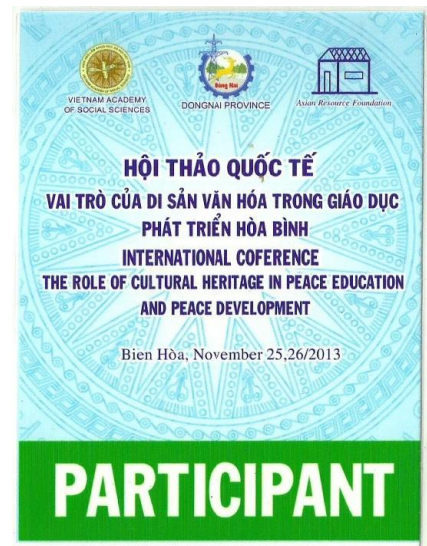
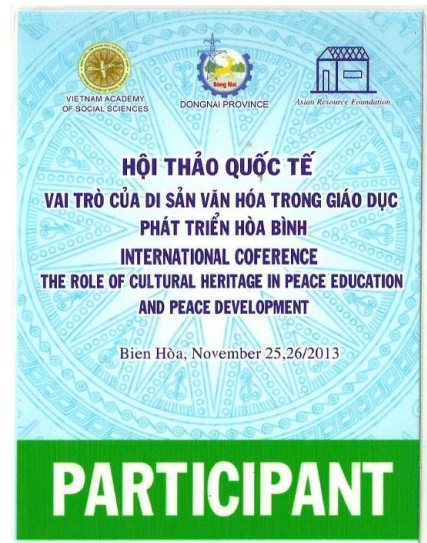
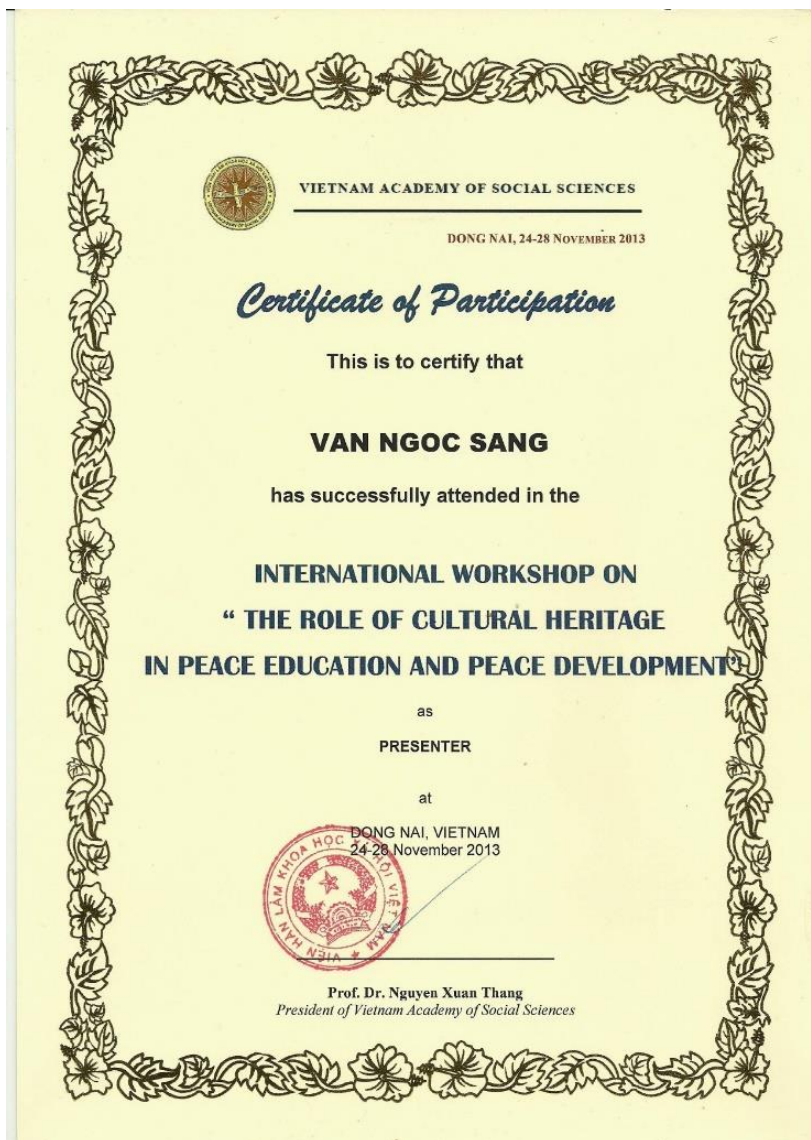
- Mục đích công trình: Số hóa tử điển quý của nhóm tác giả Nguyễn Kim Trường, Trương Anh biên (chủ biên), với số lượng 12.120 mục từ Mông – Tiếng.
- Các chức năng chính của tử điển: Nhập từ mới, sửa từ đã có, xóa từ đã có, cập nhật từ điển, tra cứu từ, xem danh sách các từ đã tra, quay về từ trước, tra nhiều từ một từ, thay đổi tùy chọn, mã hóa dữ liệu và cài đặt, phát âm.
- Kết quả ứng dụng: được công bố vào năm 2005. Công cụ hỗ trợ tra cứu phát âm từ ngữ tiếng “Mông – Việt, Việt – Mông – Việt” phục vụ cho công tác nghiên cứu, biên soạn tài liệu dạy và học tiếng Mông.
- Địa chỉ ứng dụng: Chuyên gia ứng dụng cho UBND tỉnh Đắk Nông, Sở Khoa học và Công nghệ, Trường Đại học Tây Nguyên và chuyển giao ứng dụng ra cho phát thanh – Truyền hình tiếng Jrai cho tỉnh Mông Nai Việt Nam thường trú tại Đắk Lắk, Sở Giáo dục – Đào tạo tỉnh Đắk Nông, các trường mầm non tại các xã của nhà nghiên cứu, các nhân có nhu cầu học tập, giảng dạy tiếng Mông.
- Giao diện tử điển điện tử Việt – Mông, Mông – Việt

3. TỬ ĐIỂN ĐIỆN TỬ TIẾNG – VIỆT, VIỆT – TIẾNG

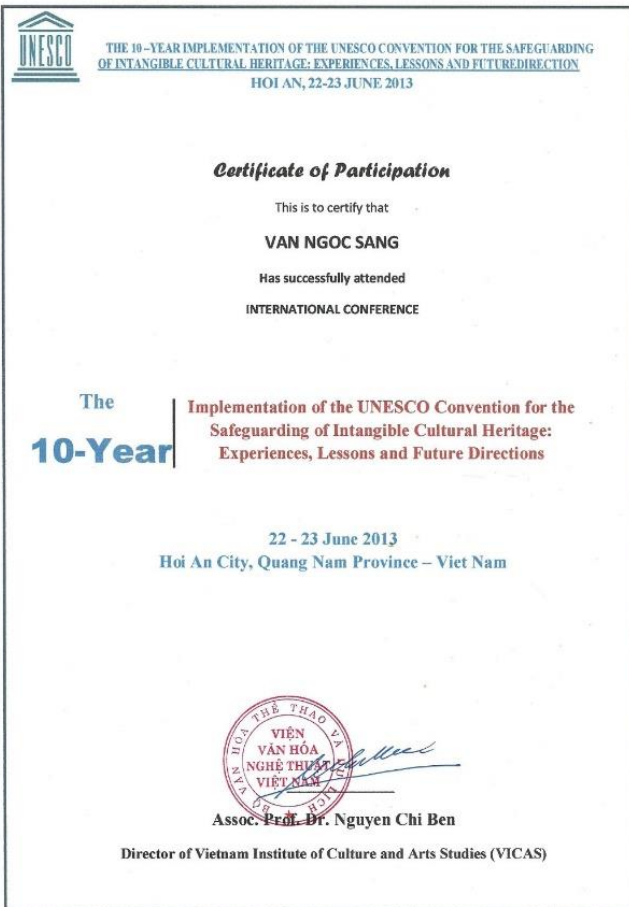
- Mục đích công trình: Số hóa tử điển quý “Tự điển Tiếng – Việt, Việt – Tiếng” của tác giả Nguyễn Khắc Cư (chủ biên), Trương Đình Khoa học và kỹ sư Điện văn, Đại học Quốc gia TP. Hồ Chí Minh chủ trì, Sở Khoa học và Công nghệ tỉnh Bình Phước quản lý, số lượng 8.500 mục từ Việt – Tiếng và 5.000 từ Tiếng – Việt.
- Các chức năng chính của tử điển: Nhập từ mới, sửa từ đã có, xóa từ đã có, cập nhật từ điển, tra cứu từ, xem danh sách các từ đã tra, quay về từ trước, tra nhiều từ một từ, thay đổi tùy chọn, mã hóa dữ liệu và cài đặt và phát âm.
- Kết quả ứng dụng: Được công bố vào năm 2011. Công cụ hỗ trợ tra cứu, phát âm từ ngữ tiếng “Tiếng – Việt, Việt – Tiếng” phục vụ cho công tác nghiên cứu, biên soạn tài liệu dạy và học tiếng Tiếng.
- Địa chỉ ứng dụng: Chuyên gia ứng dụng cho UBND Bình Phước, Sở Khoa học và Công nghệ, Trường Đại học Tây Nguyên và chuyển giao ứng dụng ra cho phát thanh – Truyền hình tiếng Bình Phước, Đài công báo Việt Nam thường trú tại Tây Nguyên, Sở Giáo dục – Đào tạo tỉnh Bình Phước, các trường mầm non và các nhà nghiên cứu, các nhân có nhu cầu học tập, giảng dạy tiếng Tiếng.
- Giao diện tử điển điện tử Việt – Tiếng, Tiếng – Việt



18. Van Ngoc Sang, Julie Nguyen. *“The Role of Education in Solving the Conflict of Indigenous Heritage Preservation”*. Proceeding of International Workshop on “The Role of Cultural Heritage in Peace Education and Peace Development”. Viet Nam, November 24-28, 2013.



19. Van Ngoc Sang, Mohamad Bin Bilal Ali, Hamdan Bin Said. *“Information Technology and Indigenous Language Preservation, a Case Study in the Malayu Cham Language in Viet Nam”*. Proceeding of International Conference on “The 10-Year Implementation of the UNESCO Convention for the Safeguarding of Intangible Cultural Heritage: Experiences, Lessons and Future Directions”. Viet Nam, June 22-23, 2013.



20. Van Ngoc Sang, Mohamad Bin Bilal Ali, Julie Nguyen. *“A Bitter Conflict about Preservation of Indigenous Cham Script in Viet Nam and Negative Effects on Teaching Mother Tongue for Cham Children in School”*. International Conference on “International Academic Conference”. San Francisco, August 3-7, 2014.

**A BITTER CONFLICT ABOUT PRESERVATION OF INDIGENOUS CHAM SCRIPT
IN VIETNAM AND NEGATIVE EFFECTS ON TEACHING MOTHER TONGUE FOR
CHAM CHILDREN IN SCHOOL**

Van Ngoc Sang, Mohamad Bin Bilal Ali, Julie Nguyen
University Technology Malaysia

Abstract:

Cham ethnic minority in Vietnam today is citizen of ancient Champa kingdom which existed from the 2nd to the 18th century in the South-Central region and wiped out from the world map due to the expand of Vietnam. Champa had ever a brilliant civilization in the past and it was known as the most famous architectural tower system that has been remained up to now. Next, the Cham stone statues with sculpture art have reached a climax and Cham script writing system formed from the 4th century and the standardized completely, called as Cham Akhar Thrah in the 16th century by the King of Po Rome.

There have existed conflicts in conservation of the Cham script and lead to the negative result of the Cham language education. Cham children have been encouraged to study the mother tongue up to class 5. While other minorities languages are taught to class 9. So they are easily forgotten and become illiterate again; Especially, the conflict raised doubts in the Cham Youth's mind when they study the modify Cham Akhar Thrah in school, therefore they have no inspiration or enthusiasm in learning their mother tongue It leads to the result of that the Cham children have been effected psychologically and to be at disadvantage compared with other groups in Vietnam.

From that, the article try to give some solutions to bring the favorable conditions for the Cham children in leaning Cham language based on the role of Education to understand the conflict, finding the caused and give solutions. as follows: The Vietnamese Educational Ministry should have a study to assess again of the modify Cham Akhar Thrah which is used in present schools, look deeply on opinions from other side group; Organization of public dialogue or scientific workshops with participants presented by the Ministry of Education, Department of Heritage, BBSSCC, the Cham elders, Imam dignitaries, intellectuals and students to unify the curriculum and Cham textbooks for Cham children learning; Expanding and improving the programs to lower secondary school, high school and colleges, universities. Implementation and experimental teaching continues to gradually revised annually complete; Except that, teachers and students should be encouraged to participate in researches to develop and preserve the purity of Cham Akar Thrah inside and outside the school.

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LÀNG TÂY NGUYÊN VỚI PHÁT TRIỂN BỀN VỮNG

TS. Buon Krông Tuyết Nhung, TS. Văn Ngọc Sáng¹

TÓM TẮT

Làng ở Tây Nguyên là một tổ chức xã hội đặc biệt. Làng được hình thành, tồn tại và phát triển trên nền tảng của luật tục truyền thống. Làng truyền thống ở Tây Nguyên không chỉ được xác định về mặt lãnh thổ mà còn là một không gian tâm linh, không gian văn hóa- xã hội, con người được hưởng đặc quyền về kinh tế, về văn hóa một cách bình đẳng, dân chủ. Ngày nay, đặc trưng làng ở Tây Nguyên đã biến đổi theo chiều hướng mới và có vai trò quan trọng đối với phát triển xã hội ở Tây Nguyên. Việc xác định đúng vai trò của làng ở Tây Nguyên đối với phát triển bền vững là một hướng đi đúng phù hợp với chủ trương của Chính phủ trong việc phát triển kinh tế - xã hội, an ninh – quốc phòng song song với phát triển văn hóa hiện nay.

In Tay Nguyen Viet Nam, Village is a special social organization. The village was formed, survival and development on the basis of traditional rules. Traditional villages is not only defined in terms of territory, but also in spiritual and in socio-cultural space, where humans are privileged economic, cultural in equality and democracy. Today, the typical village in Tay Nguyen has changed in the new direction and has an important role for social development in Tay Nguyen. The determination of the proper role of the village in Tay Nguyen for sustainable development is the right direction in accordance with the policy of the government in development of socioeconomic, security, national defense in parallel with cultural development.

