



نقابة المهندسين الأردنيين
Jordan Engineers Association

مؤتمر الهندسة المدنية الأردني الدولي الثامن "الهندسة المدنية الذكية"

The Eighth Jordan International
Civil Engineering Conference
(JICEC8)
"Smart Civil Engineering"

27 – 29 September 2022



Conference Program

CONFERENCE PROGRAM

Tuesday, Sep 27th 2022

First Day - Session A

Time		
08:30-10:00		Registration
10:00-11:00		OPENING CEREMONY
11:00-11:30		COFFEE BREAK
11:30-13:30		Session 1 رئيس الجلسة: د. عز الدين كتحدا
11:30-12:30	K-1	KEYNOTE ADDRESS: Prof. Sameer Abu-Eisheh Current Status and Prospects Towards Sustainable and Smart Transportation in an Emerging Country: The Palestinian Case
12:30-13:30	K-2	KEYNOTE ADDRESS: Prof. Samer Madanat Optimal Policies for Greenhouse Gas Emission Minimization Under Agency Budget Constraints in Pavement Management
13:30-13:40		10 Minute Intermission
13:40-14:20		Session A1 رئيس الجلسة: د. لینا شبيب
13:40-14:20	N1-A	INVITED SPEAKER: Prof. Hashem Al-Masaeid Consistency of Highway Geometric Design توافق العناصر الهندسية في تصميم الطرق
14:20-15:20		LUNCH BREAK
15:20-16:20		Session A2 رئيس الجلسة: أ.د. سعد أبو قديس
15:20-15:40	01	Impact of vehicle overloading on pavement service life (Online) Prof. Adli H. Balbissi (1), Mohammad Qblawi (2), Haneen Al-Masri (3) Mu'taz Al-Najar (4)
15:40-16:00	02	Using computer software in pavement maintenance management system for airport airfield pavement Prof. Basim Kadem Jrew, Eng. Sahel Mohammad Eneizat
16:00-16:20	03	Smart solutions for highly congested intersections by using different unconventional arterial intersection designs Bara'h Al-Mashaikh, Mohammad Abojaradeh, Dr. Mahmoud Al-Battah
16:20-16:40		No Activity
16:40-17:00		COFFEE BREAK
17:00-18:00		Session A3 رئيس الجلسة: أ.د. سليم الدحابره
17:00-17:20	04	Defensible façade as a solution to improve indoor air quality within houses alongside stone industrial areas: case from Hebron, Palestine (Online) Dr. Bader Alatawneh, Eng. Sameeha Hushlamoun, Eng. Deema Amleh
17:20-17:40	05	Retrofitting strategy to enhance the energy performance of existing residential buildings in Palestine (Online) Dr. Abdelrahman Halawani, Lana Abu Munshar
17:40-18:00	06	Appropriateness of adaptive living wall system in school building façades to enhance thermal performance: cases from Palestine (Online) Dr. Bader Alatawneh, Hatem Alsarsour, Sireen Idkeidek

End of Day 1

CONFERENCE PROGRAM

Tuesday, Sep 27th 2022

First Day - Session B

Time		
08:30-10:00		Registration
10:00-11:00		OPENING CEREMONY
11:00-11:30		COFFEE BREAK
11:30-13:30		Session 1 رئيس الجلسة: د. عز الدين كتحدا
11:30-12:30	K-1	KEYNOTE ADDRESS: Prof. Sameer Abu-Eisheh Current Status and Prospects Towards Sustainable and Smart Transportation in an Emerging Country: The Palestinian Case
12:30-13:30	K-2	KEYNOTE ADDRESS: Prof. Samer Madanat Optimal Policies for Greenhouse Gas Emission Minimization Under Agency Budget Constraints in Pavement Management
13:30-13:40		10 Minute Intermission
13:40-14:20		Session B1 رئيس الجلسة: أ.د. سلطان الطراونه
13:40-14:20	N-6B	INVITED SPEAKER: Eng. Salah Abu Obaid Essential Knowledge of Concrete Floors
14:20-15:20		LUNCH BREAK
15:20-16:20		Session B2 رئيس الجلسة: أ.د. سمير قاقيش
15:20-15:40	23	Analytical study on flexural behavior of one-way fiber foam concrete slabs Eng. Aya Al-Qatawna and Dr. Rabab Allouzi
15:40-16:00	24	Theoretical and experimental investigation of scaling factor influence on the behavior of RC frame (Online) Dr. Jafar A. Al thawabteh, Eng. Yasmeen N. Abu Za'rour, Eng. Dania Y. Al Khaila, Eng. Abdalraheem A. Al Rawashdeh, Eng. Mohammad R. Shawabkeh
16:00-16:20	25	Effect of using basalt coarse aggregate on the shear resistance of short reinforced concrete columns Eng. Noorhan. M. Shahrour, Dr. Rabab A. AL Louzi
16:20-16:40		No Activity
16:40-17:00		COFFEE BREAK
17:00-18:00		Session B3 رئيس الجلسة: د. رباب اللوزي
17:00-17:20	26	Modeling of parking garages fire Prof. Said DHIMDI, Jean Marie Mfulu
17:20-17:40	27	Lightweight concrete beams and their moment curvature generation using the fiber approach Ziad N. Taqieddin* and Yazan S. Almomani [1]
17:40-18:00	28	Granite dust as stabilizer material for expansive soil Eng. Amel Mohammed Abd Elrahman Mohammed ¹ , Abdalrhman S. elmahi ² , Murtada M. Ibrahim ³ , Yousif kh. Abdalrhman ⁴

End of Day 1

CONFERENCE PROGRAM

Tuesday, Sep 27th 2022

First Day - Session C

Time

08:30-10:00	Registration
10:00-11:00	OPENING CEREMONY
11:00-11:30	COFFEE BREAK
11:30-13:30	Session 1 رئيس الجلسة: د. عز الدين كتحدا
11:30-12:30	K-1 KEYNOTE ADDRESS: Prof. Sameer Abu-Eisheh Current Status and Prospects Towards Sustainable and Smart Transportation in an Emerging Country: The Palestinian Case
12:30-13:30	K-2 KEYNOTE ADDRESS: Prof. Samer Madanat Optimal Policies for Greenhouse Gas Emission Minimization Under Agency Budget Constraints in Pavement Management
13:30-13:40	10 Minute Intermission
13:40-14:20	Session C1 – No Activity
14:20-15:20	LUNCH BREAK
15:20-16:40	Session C2
15:20-16:40 (80 mins)	(Geotechnical) Panel Discussion 1: المتطلبات الفنية لشروط السلامة العامة الواجب توافرها بالحفريات الإنشائية لمشاريع الإعمار منسق الجلسة: أ.د. بشار الطراونة المشاركون: د. جمال قطيشات, م. عبدالله غوشة, د. أمجد البرغوثي
16:40-17:00	COFFEE BREAK
17:00-18:30	Session C3
17:00-18:30 (90 mins)	(Transportation) Panel Discussion 2: تقييم لتجربة الأردن في مجال النقل الجماعي – مثال: باص التردد السريع منسق الجلسة: د. لينا شبيب المشاركون: أ.د. هاشم المساعيد, م. رياض الخرابشة, م. وليد أبو غوش Oscar Edmundo Diaz, ميرا مراد

End of Day 1

CONFERENCE PROGRAM

Tuesday, Sep 27th 2022

First Day - Sessions A, B, C

Time			
08:30-10:00		Registration	
10:00-11:00		OPENING CEREMONY	
11:00-11:30		COFFEE BREAK	
11:30-13:30		Session 1 رئيس الجلسة: د. عز الدين كتحدا	
11:30-12:30	K-1	KEYNOTE ADDRESS: Prof. Sameer Abu-Eisheh	
		Current Status and Prospects Towards Sustainable and Smart Transportation in an Emerging Country: The Palestinian Case	
12:30-13:30	K-2	KEYNOTE ADDRESS: Prof. Samer Madanat	
		Optimal Policies for Greenhouse Gas Emission Minimization Under Agency Budget Constraints in Pavement Management	
13:30-13:40		10 Minute Intermission	
13:40-14:20		Sessions A1 & B1	13:40-14:20 Session C1
13:40-14:20	N1-A	2 INVITED	13:40-14:20 No Activity
	N6-B	SPEAKERS	
14:20-15:20		LUNCH BREAK	14:20-15:20 LUNCH BREAK
15:20-16:20		Sessions A2 & B2	15:20-16:40 Session C2
15:20-15:40	A01	PAPERS	(Geotechnical) Panel Discussion 1: المتطلبات الفنية لشروط السلامة العامة الواجب توافرها بالحفريات الإنشائية لمشاريع الإعمار
	B23		
15:40-16:00	A02		
	B24		
16:00-16:20	A03		
	B25		
16:20-16:40		No Activity	
16:40-17:00		COFFEE BREAK	16:40-17:00 COFFEE BREAK
17:00-18:00		Sessions A3 & B3	17:00-18:30 Session C3
17:00-17:20	A04	PAPERS	(Transportation) Panel Discussion 2: تقييم لتجربة الأردن في مجال النقل الجماعي - مثال: باص التردد السريع
	B26		
17:20-17:40	A05		
	B27		
17:40-18:00	A06		
	B28		
18:00-18:30		End of Activities	

End of Day 1

CONFERENCE PROGRAM

Wednesday, Sep 28th 2022

Second Day - Session A

Time

09:00-11:00

Session 2 رئيس الجلسة: م. محمد أبو عفيفة

09:00-10:00

K-3

KEYNOTE ADDRESS: Prof. Halil Sezen

Seismic Resilience of Concrete Structures and Building Collapse Performance

10:00-11:00

K-4

KEYNOTE ADDRESS: Prof. Khaled Al-Shibli

Infrastructure Health Monitoring: Opportunities and Challenges

11:00-11:20

COFFEE BREAK

11:20-13:00

Session A4 رئيس الجلسة: د. بشار النابلسي

11:20-12:00

N2-A

INVITED SPEAKER: Eng. Hassan Bouran

Smart Blocks, the Future of Concrete Masonry Units 'CMU'

12:00-12:20

07

Effect of date palm fibers on unconfined compressive strength of soil (Online)

Dr. Omer Muhie Eldeen Taha¹, Sarah Mustafa Ahmed²

12:20-12:40

08

Bacteria in smart concrete: friends or foes?

Eng. Hisham Qasrawi

12:40-13:00

09

Enhancing daylight level inside living spaces of apartment buildings in Hebron, Palestine (Online)

Dr. Bader Alatawneh*, Eng. Haya Nasereddin** Eng. Ilham Nasereddin**,

13:00-13:20

COFFEE BREAK

13:20-15:00

Session A5 رئيس الجلسة: د. محمد حامد

13:20-14:00

N3-A

INVITED SPEAKER: Dr. Lina Shbeeb

Needs and Challenges for Developing an Intelligent Transportation System

14:00-14:20

10

Impact of non-scheduled public mini bus stops on transit trip time a case study in Amman, Jordan

Ali Issa Alqatawna

14:20-14:40

11

Investigating drivers' attitudes toward using autonomous vehicles in Jordan

Eng. Ansam A Sawalha¹ and Amani A. Sawalha²

14:40-15:00

12

Considerations for drivers' safety regulations and technology innovative warning and enforcement methods (Online)

Prof. Faisal Awadallah, Eng. Lama Abu Fares

15:00-16:00

LUNCH BREAK

16:00-17:40

Session A6 رئيس الجلسة: د. أحمد هاني العمري

16:00-16:40

N4-A

INVITED SPEAKER: Wajdi Sahawneh

Building Information Modelling in Civil Engineering

16:40-17:00

13

Modeling trip generation using adaptive neuro-fuzzy inference system (Online)

Eng. Mohammad Irshaid, Prof. Sameer Abu-Eisheh

17:00-17:20

14

Construction and prediction of highway traffic accidents using artificial neural network: a case study of freeways-Spain

Ali Alqatawna *, Ana María Rivas Álvarez * And Santos Sanchez-Cambronero Garcia-Moreno*

17:20-17:40

15

Smart solution for mobile phones distractions while driving in Jordan

Mohammad Abojaradeh¹, Dua Abojaradeh², Eman Abojaradeh³

End of Day 2

CONFERENCE PROGRAM

Wednesday, Sep 28th 2022

Second Day - Session B

Time

09:00-11:00

Session 2 رئيس الجلسة: م. محمد أبو عفيفة

09:00-10:00

K-3

KEYNOTE ADDRESS: Prof. Halil Sezen

Seismic Resilience of Concrete Structures and Building Collapse Performance

10:00-11:00

K-4

KEYNOTE ADDRESS: Prof. Khaled Al-Shibli

Infrastructure Health Monitoring: Opportunities and Challenges

11:00-11:20

COFFEE BREAK

11:20-13:00

Session B4 رئيس الجلسة: أ.د. عبد القادر النجمي

11:20-12:00

N7-B

INVITED SPEAKER: Eng. Omar Sheikh Alard

The Use of Carbon Fiber in Repair of Concrete Structures

12:00-12:20

29

Characterization of printed steel using WAAM technology for structural applications

Dr. Zeina Al-Nabulsi (Al-Nabulsi Z 1, Mottram J T 1, Kourra N 2, Williams M 2)

12:20-12:40

30

Use of metal 3d-printing technology in creating special structural systems (Online)

Eng. Ghaith A Abureden¹ and Dr. Walid M Hasan²

12:40-13:00

31

Evaluating the structural stability of 3d printed shelters in Jordan (Online)

Dr. Mohanad Akeila, Mohanad Akeila¹, Kelvin Kuok King Kuok 2,

Christopher Preece 3

13:00-13:20

COFFEE BREAK

13:20-15:00

Session B5 رئيس الجلسة: أ.د. حنان النمري

13:20-14:00

N8-B

INVITED SPEAKER: Eng. Ra'ed Al-Daoud

Water Management Innovations

14:00-14:20

32

Evaluating the environmental performance of 3d printed shelters in Jordan (Online)

Dr. Mohanad Akeila¹, Christopher Preece², Kelvin Kuok King Kuok³

14:20-14:40

33

Lightweight 3d-printed steel structural systems (Online)

Ghaith A Abureden¹, Walid M Hasan², and Ádány Sándor³

14:40-15:00

34

Exploring the Potential of 3D Printing Technology in Building Construction

Mohammad Arif Kamal

15:00-16:00

LUNCH BREAK

16:00-17:40

Session B6 رئيس الجلسة: د. نزار أبو جابر

16:00-16:40

N9-B

INVITED SPEAKER: Eng. Sami Habahbeh

إنفجار مطعم وسط البلد – أعمال الدعم و إعادة التأهيل العاجلة

16:40-17:00

35

حالة دراسية: تحليل انهيارات الحفريات في مشروع معرض سيارات في فلسطين

د.محمد طه سيد أحمد, م.عمر خميسة¹, م.عزالدين المشلمون²

17:00-17:20

36

New trends, techniques, and smart devices in sustainable construction & retrofitting (Online)

Eng. Qusai Al- Nsour

17:20-17:40

37

High-temperature processes for railways transport system (Online)

Prof. Alexey Lykov, Dr. Vladimir Saranchin

End of Day 2

CONFERENCE PROGRAM

Wednesday, Sep 28th 2022

Second Day - Session C

Time

09:00-11:00		Session 2 رئيس الجلسة: م. محمد أبو عفيفة
09:00-10:00	K-3	KEYNOTE ADDRESS: Prof. Halil Sezen Seismic Resilience of Concrete Structures and Building Collapse Performance
10:00-11:00	K-4	KEYNOTE ADDRESS: Prof. Khaled Al-Shibli Infrastructure Health Monitoring: Opportunities and Challenges
11:00-11:20	COFFEE BREAK	
11:20-13:00		Session C4
11:20-12:00	No Activity	
12:00-13:00 (60 mins)	Sponsored Session 1: شركة واحدة أيلة للتطوير	
13:00-13:20	COFFEE BREAK	
13:20-15:00		Session C5
13:20-14:00	No Activity	
14:00-15:00 (60 mins)	Sponsored Session 2: شركة الوصلة الفنية للتكنولوجيا و مواد البناء Voided Flat Slabs with Plastic Molds New-Nautilus-Evo System	
15:00-16:00	LUNCH BREAK	
16:00-16:40	No Activity	
16:40-18:10		Session C6
16:40-18:10 (90 mins)	(Water) Panel Discussion 3: Public-Private Partnership Models and Practices within the Jordanian Water Section منسق الجلسة: م. مالك الرواشدة المشاركون: م. باسم طلفاح, م. جهاد أبو جاموس, م. صدام خليفات, د. المؤيد السيد	

End of Day 2

CONFERENCE PROGRAM

Wednesday, Sep 28th 2022

Second Day - Sessions A, B, C

Time		Session 2 رئيس الجلسة: م. محمد أبو عفيفة	
09:00-11:00			
09:00-10:00	K-3	KEYNOTE ADDRESS: Prof. Halil Sezen Seismic Resilience of Concrete Structures and Building Collapse Performance	
10:00-11:00	K-4	KEYNOTE ADDRESS: Prof. Khaled Al-Shibli Infrastructure Health Monitoring: Opportunities and Challenges	
11:00-11:20	COFFEE BREAK		11:00-11:20 COFFEE BREAK
11:20-13:00	Sessions A4 & B4		11:20-13:00 Session C4
11:20-12:00	N2-A N7-B	2 INVITED SPEAKERS	11:20-12:00 No Activity
12:00-12:20	A07 B29	PAPERS	شركة واحدة آيلة للتطوير (60 mins)
12:20-12:40	A08 B30		
12:40-13:00	A09 B31		
13:00-13:20	COFFEE BREAK		13:00-13:20 COFFEE BREAK
13:20-15:00	Sessions A5 & B5		13:20-15:00 Session C5
13:20-14:00	N3-A N8-B	2 INVITED SPEAKERS	13:20-14:00 No Activity
14:00-14:20	A10 B32	PAPERS	شركة الوصلة الفنية للتكنولوجيا ومواد البناء Voided Flat Slabs with Plastic Molds New-Nautilus-Evo System (60 mins)
14:20-14:40	A11 B33		
14:40-15:00	A12 B34		
15:00-16:00	LUNCH BREAK		15:00-16:00 LUNCH BREAK
16:00-17:40	Sessions A6 & B6		16:00-18:10 Session C6
16:00-16:40	N4-A N9-B	2 INVITED SPEAKERS	16:00-16:40 No Activity
16:40-17:00	A13 B35	PAPERS	(Water) Panel Discussion 3: Public-Private Partnership Models and Practices within the Jordanian Water Section (90 mins)
17:00-17:20	A14 B36		
17:20-17:40	A15 B37		
17:40-18:10	End of Activities		

End of Day 2

CONFERENCE PROGRAM

Thursday, Sep 29th 2022

Third Day - Session A

Time

10:00-11:00		Session 3 رئيس الجلسة: د. جهاد المحاميد
10:00-11:00	K-5	KEYNOTE ADDRESS: Prof. Radwan Al-Weshah Flash Flood Risk Management in Jordan
11:00-11:20		COFFEE BREAK
11:20-13:20		Session A7 رئيس الجلسة: م. فوزي مسعد
11:20-11:40	16	Managing over life cycle of complex construction projects through project management office Dr. Mamoon Mousa Atout
11:40-12:20	N5-A	INVITED SPEAKER: Eng. Husni Madi العقود الهندسية وأساليب فض النزاعات والتحكيم
12:20-12:40	17	Settlement of engineering projects disputes; practical cases from Dubai courts Dr. Jaddou S. Awdat
12:40-13:00	18	متطلبات إدارة فريق المشروع الناجح Eng. Haider Alsaigh
13:00-13:20	19	Lean construction (Online) Eng. Omar Rajab
13:20-13:30		No Activity
13:30-14:00		COFFEE BREAK
14:00-15:00		Session A8 رئيس الجلسة: د. محمد عبد القادر
14:00-14:20	20	Predicting the properties of high-performance concrete using artificial intelligence (Online) Omar Shamayleh*, Harry Far
14:20-14:40	21	Future of self-healing concrete in entrepreneurship world Eng. Nizar Nail Romman
14:40-15:00	22	AI, IOT, smart homes & smart city Eng. Ammar Naber
15:00- 15:30		No Activity
15:30		CONFERENCE CLOSURE & LUNCH

End of Day 3

CONFERENCE PROGRAM

Thursday, Sep 29th 2022

Third Day - Session B

Time

10:00-11:00		Session 3 رئيس الجلسة: د. جهاد المحاميد
10:00-11:00	K-5	KEYNOTE ADDRESS: Prof. Radwan Al-Weshah Flash Flood Risk Management in Jordan
11:00-11:20		COFFEE BREAK
11:20-13:20		Session B7 رئيس الجلسة: أ.د. غيداء أبو رمان
11:20-12:00	N10-B	INVITED SPEAKER: Eng. Khaldoun Khashman مشاكل قطاع المياه و مشاريع المياه على مستوى المنطقة العربية
12:00-12:20	38	Modern methods for solving problems of water distribution management Dr. Andriy Popovych
12:20-12:40	39	Real-time water quality monitoring system- Jordan case study Tharwh Qutaish ¹ , Farouq Alomari, Haitham Saleh, Samer Mousa, Muath Haddar and Almoayied Assayed
12:40-13:00	40	Scenario of Palestine (1967 lands) infrastructure after liberation in terms of urban planning Eng. Amjad Hani Da'na
13:00-13:20	41	Sustainable desert house: a sample design in Negev desert, Palestine (Online) Dr. Bader Alatawneh, Eng. Haya Nasereddin, Eng. Ilham Nasereddin
13:20-13:30		No Activity
13:30-14:00		COFFEE BREAK
14:00-15:00		Session B8 رئيس الجلسة: أ.د. منى أبو دلو
14:00-14:20	42	Biosorptive removal of mercury from aqueous phase by a biomass: kinetic and equilibrium studies (Online) Dr. El-Khamssa Guechi ^{*1} , Soulef. Benabdesselam ² , Oualid Hamdaoui ¹
14:20-14:40	43	Modification of zeolite for the adsorption of carbamazepine from aqueous solution using batch and column studies Dr. Othman A. Al-Mashaqbeh ^{1*} , Diya A. Alsafadi ² , Layal Z. Alsalhi ¹ , Shannon L. Bartelt-Hunt ³ , Daniel D. Snow ⁴
14:40-15:00	44	Extraction and some mechanical properties of agricultural waste fiber composite from karkade plant stem Amel M. Abd Elrahman ¹ , Tayfun Uygunoğlu ² , Ömer F. Dilmaç ³
15:00-15:30		No Activity
15:30		CONFERENCE CLOSURE & LUNCH

End of Day 3

CONFERENCE PROGRAM

Thursday, Sep 29th 2022

Third Day - Session C

Time

10:00-11:00 Session 3 رئيس الجلسة: د. جهاد المحاميد

10:00-11:00 K-5 KEYNOTE ADDRESS: Prof. Radwan Al-Weshah
Flash Flood Risk Management in Jordan

11:00-11:20 COFFEE BREAK

11:20-13:30 Session C7

11:20-12:00 No Activity

12:00-13:30 Panel Discussion 4
(90 mins) The Application of 3D Printing in Construction

منسق الجلسة: د. زينة النابلسي
م. شارلز مالك، م. زيد مرمش، م. لؤي الكردي

13:30-14:00 COFFEE BREAK

14:00-15:30 Session C8

14:00- 15:30 Students' Conference
(90 mins)

15:30 CONFERENCE CLOSURE & LUNCH

End of Day 3

Third Day - Sessions A, B, C – A7

End of Day 3

CONFERENCE PROGRAM

Thursday, Sep 29th 2022

Third Day - Sessions A, B, C – B7

Time

10:00-11:00		Session 3 رئيس الجلسة: د. جهاد المحاميد	
10:00-11:00	K-5	KEYNOTE ADDRESS: Prof. Radwan Al-Weshah Flash Flood Risk Management in Jordan	
11:00-11:20	COFFEE BREAK		11:00-11:20 COFFEE BREAK
11:20-13:20	Session B7		11:20-13:30 Session C7
11:20-12:00	N10-B	1 INVITED SPEAKER	11:20-12:00 No Activity
12:00-12:20	B38	PAPERS	12:00-13:30 (90 mins) Panel Discussion 4: The Application of 3D Printing in Construction
12:20-12:40	B39		
12:40-13:00	B40		
13:00-13:20	B41		
13:20-13:30	No Activity		13:30-14:00 COFFEE BREAK
13:30-14:00	COFFEE BREAK		
14:00-15:00	Sessions A8 & B8		14:00-15:30 Session C8
14:00-14:20	A20 B42	PAPERS	14:00-15:30 (90 mins) Students' Conference
14:20-14:40	A21 B43		
14:40- 15:00	A22 B44		
15:00-15:30	End of Activities		
15:30	CONFERENCE CLOSURE & LUNCH		

End of Day 3

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