

ICSIP 2020

2020 IEEE 5th International Conference on
Signal and Image Processing

— with workshop —

ICISPP 2020

ICHST 2020

SPML 2020

AITC 2020

UTC/GMT+8 October 23-25, 2020

Conference Program

Sponsored by



東南大學
SOUTHEAST UNIVERSITY

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2020 IEEE 5th International Conference on Signal and Image Processing

2020 International Conference on Information Security and Privacy Protection

2020 2nd International Conference on Hardware Security and Trust

2020 3rd International Conference on Signal Processing and Machine Learning

2020 2nd International Artificial Intelligence Technology Conference



CONTENTS



Welcome Address **01**

02 Zoom Guidance

Presentation Tips **03**

04 Meeting Agenda

Keynote Speech **05**

06 Technical Sessions

Welcome Address

UTC/GMT+8 Oct. 23-25

Dear All,

Welcome to attend the Nanjing conferences!

Due to COVID-19 is a worldwide pandemic, we have made a difficult decision to combine all conferences (ICSIP 2020 ICISPP 2020 ICHST 2020 SPML 2020 AITC 2020) together and convert to a fully virtual conference after considering the safety and well-being of our participants is of paramount importance to us.

We were looking forward to seeing everyone in Nanjing, but we are excited for the opportunity to innovate by creating an engaging virtual conference that will be rewarding for both presenters and attendees.

The objective of the conference is to provide a premium platform to bring together researchers, scientists, engineers, academics and graduate students to share up-to-date research results. We are confident that during this time you will get the theoretical grounding, practical knowledge, and personal contacts that will help you build a long term, profitable and sustainable communication among researchers and practitioners in the related scientific areas.

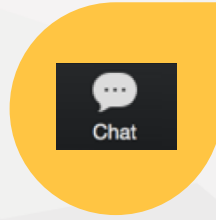
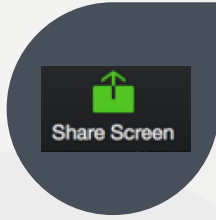
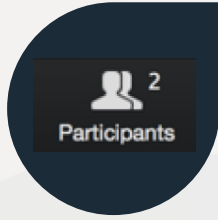
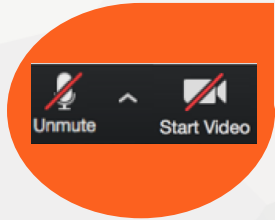
We would like to express our gratitude to our distinguished speakers, IEEE and IAPR Fellow, Prof. Changsheng Xu, Chinese Academy of Sciences, China; IEEE Fellow, Prof. Xiaolin Wu, McMaster University, Canada; IEEE and IAPR Fellow, Prof. Yunhong Wang, Beihang University, China; IET Fellow, Prof. Yao Zhao, Beijing Jiaotong University, China and other distinguished scholars for sharing their deep insights on future challenges and trends in the conferences.

Special thanks to our committee members, all the reviewers, researchers and students who participate in the conference. Hope you could enjoy the conference and have an unforgettable experience!

Conference Organizing Committees

Zoom Guidance-01

UTC/GMT+8 Oct. 23-25



Audio muted and video off (both indicated by a red slash).

Click to open the Participants box. This will allow you to "Raise Hand"

To share screen or contents.

This will allow you to chat with Hosts and Participants.

- 1** Download
URL: <https://zoom.us/download>
Please make sure to download before the test time Oct 23.
- 2** Choose join a meeting, please check your allocated system zoom ID carefully.
- 3** Each meeting has a unique 9, 10, or 11-digit number called a meeting ID that will be required to join a Zoom meeting.
- 4** Assistant 1
For any questions on the meeting day, you can text privately to "Assistant 1" for help.

For more Instruction:

https://pan.baidu.com/s/1Bji5SUK19uPT_NL9tdy9ig

Password: q4mg

Zoom Guidance-02

UTC/GMT+8 Oct. 23-25

MEETING ID

Room A- 937 4614 3899

Room B- 657 6606 5656

Room C- 699 2076 7307

Room D- 686 0375 4077

Room E- 663 9895 1683



Name Setting

Author	Paper ID+name
Listener	Listener+name
Keynote Speaker	Keynote+name
Committees	Position+name

Test time

Check details of your testing time Oct. 23, and please make sure to show up on time.

Time Zone

UTC/GMT+8:00

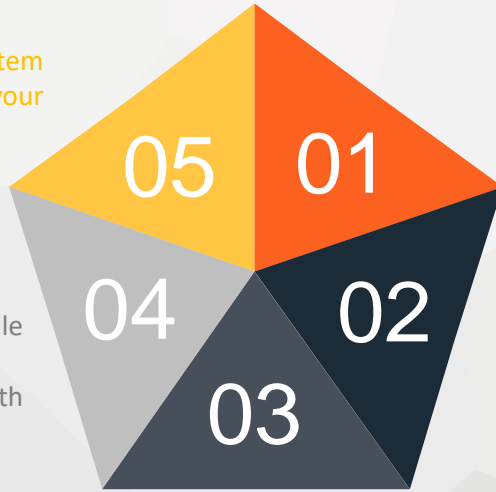
Please be aware of time difference between this and your region/country.

Presentation Tips

UTC/GMT+8 Oct. 23-25

There will have different zoom ID for system test and technical sessions, please check your allocated system zoom ID carefully.

Please unmute audio and start video while your presentation.
It's suggested to use headset with microphone or earphone with microphone.



Conference room will be available 30 mins before the conference scheduled time. Please enter the meeting room 10-15 minutes earlier.

Each paper will be presented by the author making a 15-minute presentation within the virtual conference. Authors will also be required to be available for a Q&A section on their paper. Authors that do not meet both these requirements will be considered "no-shows."

Presentation certificate will be sent to presenters after conference by email.

An excellent presentation certificate will be sent to presenters after conference by email.

System Test Timetable-01

UTC/GMT+8 Oct. 23

Meeting Link: <https://zoom.us/j/93746143899>

Meeting ID: 937 4614 3899 (Room A)

9:30-10:10

IP116	IP019	IP041
IP086	IP117	IP253
IP104	IP200	

10:10-10:50

IP036	IP106	IP108
IP110	IP113	IP127
IP136	IP207	IP222

10:50-11:30

IP047	IP153	IP162
IP226	IP037	IP194
IP513-A	IP021	IP146

11:30-12:10

IP074	IP245	IP225
IP022	IP152	IP227
IP025	IP255	

13:30-14:10

IP012	IP005	IP109
IP252	IP258	IP098
IP105	IP137	IP197
IP210	IP246	IP213

14:10-14:50

IP043	IP049	IP068
IP520	IP184	IP055
IP112	IP139	

14:50-15:40

IP044	IP107	IP158
IP164	IP189	IP198
IP217	IP232	IP259

15:40-16:10

IP111	IP156	IP196
IP178	IP202	IP239

Note: Please check your allocated system zoom ID carefully.

16:10-17:10 alternative time for participants who are unavailable at allocated time.

System Test Timetable-02

UTC/GMT+8 Oct. 23

Meeting Link: <https://zoom.com.cn/j/65766065656>
Meeting ID: 657 6606 5656 (Room B)

9:30-10:20

IP508	IP509	IP144
IP173	IP186	IP161
IP167	IP248	IP169
IP228		

10:20-11:00

IP163	IP090	IP093
IP075	IP215	IP231
P810	IP069	

11:00-11:40

IP072	IP087	IP124
IP132	IP157	IP007
IP100	IP256	

11:40-12:30

IP011	IP076	IP094
IP095	IP096	IP182
IP241	IP229	IP028

13:30-14:20

IP254	IP122	IP188
IP212	IP214	IP216
IP506	IP015	IP073
IP051		

14:20-15:10

IP220	IP061	IP130
IP235	IP511	IP064
IP057	IP223	IP013
IP017		

15:10-16:00

IP151	IP209	IP018
IP234	IP046	IP050
IP101	IP166	IP244
IP249		

16:00-16:40

IP080	IP038	IP204
IP250	IP059	IP251
IP203	IP031	

Note: Please check your allocated system zoom ID carefully.

16:40-17:30 alternative time for participants who are unavailable at allocated time.

System Test Timetable-03

UTC/GMT+8 Oct. 23

Meeting Link: <https://zoom.com.cn/j/69920767307>
Meeting ID: 699 2076 7307 (Room C)

9:30-10:20

IP020	IP014	IP035
IP123	IP126	IP016
IP029	IP081	IP170
IP071		

10:20-11:10

IP515	IP516	IP518
IP010	IP009	IP045
IP099	IP141	IP199
IP243		

11:10-12:00

IP060	IP257	IP503
IP504	IP507	IP077
IP131	IP168	IP174
IP033		

13:30-14:20

IP042	IP065	IP135
IP138	IP142	IP148
IP201	IP236	IP224

14:20-15:10

IP521	IP085	IP143
IP145	IP175	IP187
IP119	IP129	IP218
IP147		

15:10-15:50

IP133	IP149	IP150
IP165	P805	P701
P703	IP514	

15:50-16:30

IP023	IP039	IP063
IP118	IP140	IP181
IP004	IP242	

16:30-17:10

IP125	IP084	IP142
IP155	P804	P806
P812	IP247	

Note: Please check your allocated system zoom ID carefully.

17:10-17:50 alternative time for participants who are unavailable at allocated time.

System Test Timetable-04

UTC/GMT+8 Oct. 23

Meeting Link: <https://zoom.com.cn/j/68603754077>

Meeting ID: 686 0375 4077 (Room D)

13:30-14:10

SM0001

SM0002

SM0003

SM0004

SM0007

SM0008

SM0011

14:10-14:50

SM0012

SM0013

SM0014

SM0015

SM6003

SM6009

SM6011

14:50-15:30

SM6013

SM0016

SM0017

SM0018

SM0019

SM0020

SM6012

Note: Please check your allocated system zoom ID carefully.

15:30-16:30 alternative time for participants who are unavailable at allocated time.

Meeting Agenda

UTC/GMT+8 Oct. 24

Meeting Link: <https://zoom.us/j/93746143899>

Meeting ID: 937 4614 3899 (Room A)

Time	Activity	Speaker
Host: Conference Organizing Chair-Prof. Liquan Chen, Southeast University, China		
9:00-9:10	Opening Remarks	TBA
9:10-9:50	Speech I Connecting Isolated Social Multimedia Big Data	IEEE & IAPR Fellow Prof. Changsheng Xu, Chinese Academy of Sciences, China
9:50-9:55	Q & A for Speech I	
9:55-10:35	Speech II DAVD-Net: Deep Audio-aided Video Decompression of Talking Heads	IEEE Fellow Prof. Xiaolin Wu, McMaster University, Canada
10:35-10:40	Q & A for Speech II	
10:40-10:55	Virtual Group Photo (Please turn on video in advance) & Break Time	

Meeting Agenda

UTC/GMT+8 Oct. 24

Meeting Link: <https://zoom.us/j/93746143899>

Meeting ID: 937 4614 3899 (Room A)

Time	Activity	Speaker
Host: Conference Co-Chair-Prof. B. Li, Southeast University, China		
10:55-11:35	Speech III Group Activity Analysis in Sports Videos	IEEE & IAPR Fellow Prof. Yunhong Wang, Beihang University, China
11:35-11:40	Q & A for Speech III	
11:40-12:20	Speech IV Reversible Data Hiding	IET Fellow Prof. Yao Zhao, Beijing Jiaotong University, China
12:20-12:25	Q & A for Speech IV	
12:25-13:30	Lunch and Break Time	

Meeting Agenda

UTC/GMT+8 Oct. 24

Technical Sessions

Time	Activity	Room
13:30-16:05	Session 1-Image Segmentation and Image Enhancement Invited Speech-IP513-A IP047 IP153 IP162 IP226 IP037 IP194 IP196 IP021 IP146	Meeting Link: https://zoom.us/j/93746143899 Meeting ID: 937 4614 3899 (Room A)
13:30-15:45	Session 2-Target Detection IP036 IP106 IP108 IP110 IP113 IP127 IP136 IP207 IP222	Meeting Link: https://zoom.com.cn/j/65766065656 Meeting ID: 657 6606 5656 (Room B)
13:30-16:00	Session 3-3D Imaging Technology and Radar Imaging IP012 IP005 IP109 IP252 IP258 IP105 IP137 IP197 IP210 IP213	Meeting Link: https://zoom.com.cn/j/69920767307 Meeting ID: 699 2076 7307 (Room C)
16:05-16:15	Break Time	
16:15-18:45	Session 4-Pattern Recognition IP116 IP019 IP041 IP086 IP111 IP117 IP156 IP253 IP104 IP200	Meeting Link: https://zoom.us/j/93746143899 Meeting ID: 937 4614 3899 (Room A)
16:15-18:45	Session 5-Image Processing Technology and Application IP163 IP090 IP038 IP093 IP098 IP204 IP075 IP215 IP231 IP250	Meeting Link: https://zoom.com.cn/j/65766065656 Meeting ID: 657 6606 5656 (Room B)
16:15-18:30	Session 6-Image Transformation and Quality Evaluation IP043 IP049 IP068 IP520 IP184 IP055 IP112 IP139 IP246	Meeting Link: https://zoom.com.cn/j/69920767307 Meeting ID: 699 2076 7307 (Room C)

Meeting Agenda

UTC/GMT+8 Oct. 24

Technical Sessions

Time	Activity	Room
13:30-16:00	Session7-Machine Learning and Intelligent Algorithms SM6003 SM6009 SM6011 SM6013 SM0002 SM0007 SM0008 SM0019 SM0020 SM6012	Meeting Link: https://zoom.com.cn/j/68603754077 Meeting ID: 686 0375 4077 (Room D)
16:00-16:05	Break Time	
16:05-17:35	Session 8-Image Analysis and Processing SM0003 SM0004 SM0012 SM0016 SM0014 SM0018	Meeting Link: https://zoom.com.cn/j/68603754077 Meeting ID: 686 0375 4077 (Room D)
17:35-17:40	Break Time	
17:40-18:55	Session 9-Communication and Signal Processing SM0001 SM0011 SM0013 SM0017 SM0015	Meeting Link: https://zoom.com.cn/j/68603754077 Meeting ID: 686 0375 4077 (Room D)

Meeting Agenda

UTC/GMT+8 Oct. 25

Technical Sessions

Time	Activity	Room
9:30-12:00	Session 10-Image Analysis and Methods IP044 IP107 IP158 IP164 IP189 IP198 IP217 IP232 IP239 IP259	Meeting Link: https://zoom.us/j/93746143899 Meeting ID: 937 4614 3899 (Room A)
9:30-12:15	Session 11-Computer Vision and Visualization IP508 IP509 IP080 IP144 IP173 IP186 IP161 IP167 IP248 IP169 IP228	Meeting Link: https://zoom.com.cn/j/65766065656 Meeting ID: 657 6606 5656 (Room B)
9:30-12:00	Session 12-Image Data Analysis and Calculation IP074 IP178 IP202 IP245 IP225 IP022 IP152 IP227 IP025 IP255	Meeting Link: https://zoom.com.cn/j/69920767307 Meeting ID: 699 2076 7307 (Room C)
9:30-11:45	Session 13-Intelligent Recognition Technology and Application P810 IP069 IP072 IP087 IP124 IP132 IP157 IP007 IP100	Meeting Link: https://zoom.com.cn/j/68603754077 Meeting ID: 686 0375 4077 (Room D)
9:30-12:15	Session 14-Signal Estimation IP256 IP011 IP076 IP094 IP095 IP096 IP059 IP182 IP241 IP229 IP028	Meeting Link: https://zoom.com.cn/j/66398951683 Meeting ID: 663 9895 1683 (Room E)
12:15-13:30	Lunch and Break Time	

Meeting Agenda

UTC/GMT+8 Oct. 25

Technical Sessions

Time	Activity	Room
13:30-16:30	Session 15-Signal Detection and Analysis IP254 IP122 IP188 IP212 IP214 IP216 IP251 IP506 IP015 IP073 IP220 IP051	Meeting Link: https://zoom.us/j/93746143899 Meeting ID: 937 4614 3899 (Room A)
13:30-16:00	Session 16-Medical Signal Analysis and Processing IP061 IP130 IP235 IP511 IP064 IP057 IP223 IP013 IP017 IP203	Meeting Link: https://zoom.com.cn/j/65766065656 Meeting ID: 657 6606 5656 (Room B)
13:30-16:15	Session 17-Modern Speech Analysis and Processing Technology IP151 IP209 IP018 IP031 IP046 IP050 IP101 IP166 IP234 IP244 IP249	Meeting Link: https://zoom.com.cn/j/69920767307 Meeting ID: 699 2076 7307 (Room C)
13:30-16:15	Session 18-Brain-computer Interface and Video Processing Technology IP020 IP014 IP035 IP123 IP125 IP016 IP029 IP081 IP126 IP170 IP071	Meeting Link: https://zoom.com.cn/j/68603754077 Meeting ID: 686 0375 4077 (Room D)
13:30-16:00	Session 19-Advanced Information Theory and Data Engineering IP515 IP516 IP518 IP010 IP033 IP045 IP099 IP141 IP199 IP243	Meeting Link: https://zoom.com.cn/j/66398951683 Meeting ID: 663 9895 1683 (Room E)
16:30-16:40	Break Time	

Meeting Agenda

UTC/GMT+8 Oct. 25

Technical Sessions

Time	Activity	Room
16:40-19:10	Session 20-Communication Principle and Technology IP060 IP257 IP503 IP504 IP507 IP077 IP084 IP131 IP168 IP174	Meeting Link: https://zoom.us/j/93746143899 Meeting ID: 937 4614 3899 (Room A)
16:40-19:25	Session 21-Communication and Information System IP042 IP065 IP135 IP138 IP142 IP148 IP155 IP201 IP236 IP224 IP247	Meeting Link: https://zoom.com.cn/j/65766065656 Meeting ID: 657 6606 5656 (Room B)
16:40-19:10	Session 22-Electronics and Communication Engineering IP521 IP085 IP143 IP145 IP175 IP187 IP119 IP129 IP218 IP147	Meeting Link: https://zoom.com.cn/j/69920767307 Meeting ID: 699 2076 7307 (Room C)
16:40-19:10	Session 23-Information Security and Encryption Technology IP133 IP149 IP150 IP165 P804 P805 P806 P812 P701 P703	Meeting Link: https://zoom.com.cn/j/68603754077 Meeting ID: 686 0375 4077 (Room D)
16:40-19:10	Session 24-Modern Electronic Technology and Application IP514 IP009 IP023 IP039 IP063 IP118 IP140 IP181 IP004 IP242	Meeting Link: https://zoom.com.cn/j/66398951683 Meeting ID: 663 9895 1683 (Room E)