Update on
Light Peer Review at IPAC'23

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IPAC'23, SPC2
June 2022

IN2P3

- Feedback from 2022

- Transition to indico

- IPAC'23 proposed workflow

- Further updates

Light Peer Review Statistic

Classification	Abstracts	Max	Peer Review				Referees						Approvers
			Requested	Papers	Selected	Assigned	Volunteers	Selected	Agree	Disagree	Approved	Declined	
Entertainment talk	0	0	0	0	0	0	9	0	0	0	0	0	0
Industrial talk	0	0	0	0	0	0	16	0	0	0	0	0	0
MC1: Circular and Linear Colliders	87	100	20	17	13	12	49	48	12	0	12	0	2
MC2: Photon Sources and Electron Accelerators	183	100	45	38	19	18	107	102	15	3	15	0	3
MC3: Novel Particle Sources and Acceleration Techniques	76	100	17	13	6	6	68	66	6	0	6	0	2
MC4: Hadron Accelerators	77	100	23	20	10	10	72	66	10	0	10	0	2
MC5: Beam Dynamics and EM Fields	171	100	38	32	19	18	145	130	17	0	17	0	2
MC6: Beam Instrumentation, Controls, Feedback and Operational Aspects	152	100	35	29	15	15	93	85	15	0	15	0	2
MC7: Accelerator Technology	176	100	47	39	20	20	148	59	18	2	16	2	3
MC8: Applications of Accelerators, Technology Transfer and Industrial Relations	63	100	30	26	18	18	78	48	18	0	18	0	2
Non MC Talk	2	0	0	0	0	0	1	0	0	0	0	0	0
Totals	987	800	255	214	120	117			111	5	109	2	18

-There were 120 papers submitted within deadline (May 20). We extended deadline to May 22.
-120 papers had been selected for light peer review. Unfortunately, 2 papers had requested for withdraw by authors and 1 paper withdrew after received referees' comments. Total 117 papers for the process.
-Total 112 papers have been "ACCEPT" for publication in the light peer review proceedings. 5 papers have been rejected from the process.

Light Peer Review Statistic

- First round of review finish on Jun 6.
- 6 days delayed from timeline
- MC8 referees are the 1st ranking on this first round

117	12	18	6	10	18	15	20	18	234
as of Jun 06, 6pm	Papers	MC1	MC2	MC3	MC4	MC5	MC6	MC7	MC8	Total missing reviews	
No reviews	0									0
One reviews	0									0
Required reviews		0	0	0	0	0	0	0	0	0
	0									
Rankings		3	2	5	6	4	7	8	1	
To be completed	0.0%									0.0% Missing
										100.0% Done

- Final status review finish on Jun 11.
- 5 days delayed from timeline
- MC4 referees are the 1st ranking on this final round
- There was 1 paper did not submit revision in time. It was excluded from LPR.

2nd-round	117	12	18	6	10	18	15	20	18	234
as of Jun 11, 8am	Papers	MC1	MC2	MC3	MC4	MC5	MC6	MC7	MC8	Total missing reviews
Approved	111	12	17	6	10	17	15	16	18	
Wait for author	1							1		2
Disagree	4		3		1					
Declined	4		1				3			
Required reviews	1	0	0	0	0	0	0	1	0	2
		1% not complete								1% Missing
116	98% complete									99% Done
	In term of no. of papers								In term of no. of reviews	
Rankings			3	4	2	1	7	5	6	

- Difficulties arose because some main classifications (e.g. MC8) have a very broad scope.
  - It is recommended to also ask reviewer to suggest the sub-classification in which they feel experts.
  - *Risk: Given the last number of sub-classification this will significantly narrow the scope for each reviewer.*
  - *Proposal:*
    - *(1) Ask for sub-classification only in MC8*
    - *(2) Try to assign the paper to reviewer who are/have been author in the same sub-classification and if not in the same MC*
- Scientific Publication Board (SPB) is the Scientific Program Committee (SPC)
- Some MC coordinators had to review paper as regular reviewer and then had to review additional papers because of reviewer's lack of reply as MC coordinator.
  - Proposal:
    - As much as possible do not ask MC coordinators to review papers in the first batch.
- Reviewer poll was constituted at the closure of early bird registration. In average 3 times as many reviewer as paper
- 120 papers asked for LPR, all were submitted.
  - 3 widthdrawn
  - 117 processed
  - 112 accepted after LPR

IN2P3

- Some students forgot to present their poster during the regular session other arrived too late at the students poster session.
  - *Proposal:*
    - *If indico permits: send an automated reminder to all presenters the day before their presentation/poster is due to be presented.*

- Ongoing issue: acceptance of the papers by web of science.
  - Timing of submission by IOP seems to be part of the isse.
  - This should be addressed this year
  - Frank, Nawin, Peter,… are working on it.

IN2P3

- Some reviewers seem to apply the same standards than for PR-AB which is way too high for LPR.
  - *Reminder:* Some aspect or part of the work must be **original** or demonstrate clear progress over other reports of the work.
  - *Proposal:*
    - *Instead of asking whether the paper is original or not, ask the level of originality of the paper on a given scale (with a low threshold for acceptance) instead of a Boolean question.*

- Very little papers have been forwarded to PR-AB
  - *Proposal:*
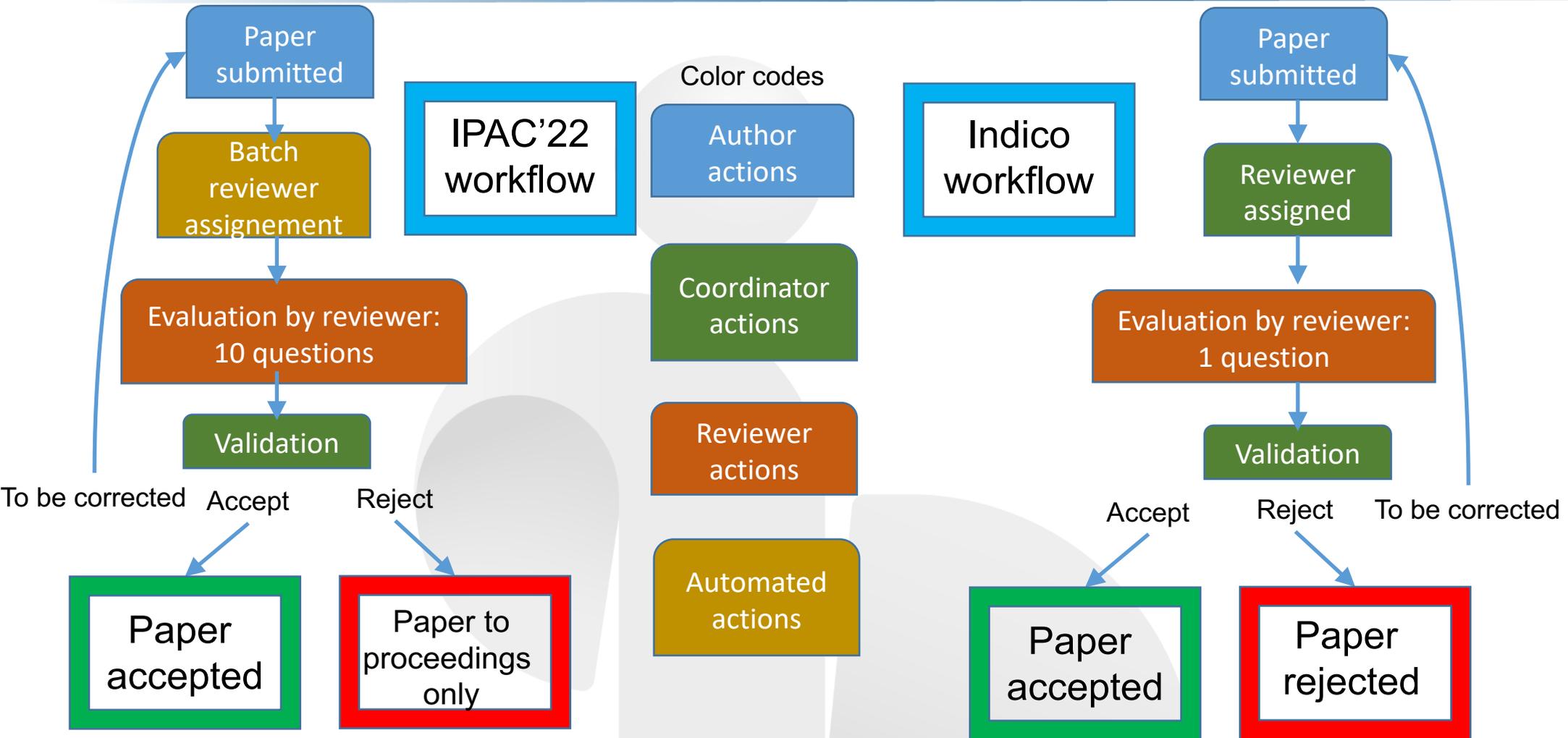   - *Add a check box for the reviewer to suggest forwarding the paper to PR-AB (with the authors' approval).*

- Discussion with Ivan Andrian

- Indico already has a referee module
  - We will test it toward then of 2022

- Need to compare IPAC'22 workflow and indico worflow

- IPAC'22 workflow: http://www.toddsatogata.net/IPAC22LightPeerReview/

- Indico workflow: https://learn.getindico.io/conferences/peer_reviewing/

IPAC'22 workflow

- Paper submitted
- Batch reviewer assignement
- Evaluation by reviewer: 10 questions
- Validation
  - To be corrected
  - Accept → Paper accepted
  - Reject → Paper to proceedings only

Color codes

- Author actions
- Coordinator actions
- Reviewer actions
- Automated actions

Indico workflow

- Paper submitted
- Reviewer assigned
- Evaluation by reviewer: 1 question
- Validation
  - Accept → Paper accepted
  - Reject → Paper rejected
  - To be corrected

Adapting indico to IPAC's workflow

- The workflows have similar shapes

- Minor adjustements:
  - Can we automate the reviewer assignement after paper submission?
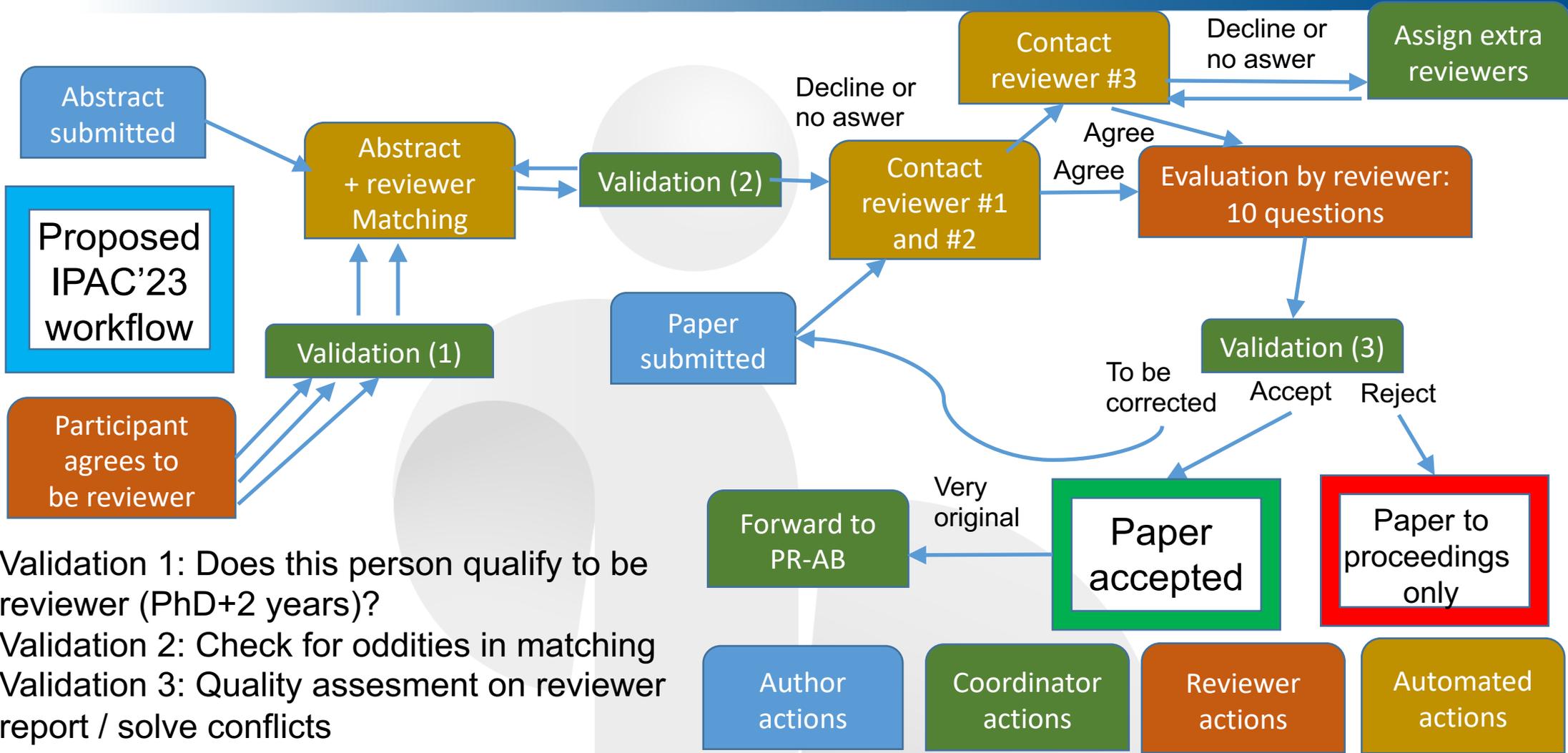 - Can we ask 10 questions upon reviewer evalution submission (apparently yes: cf abstract judging for SPC2).
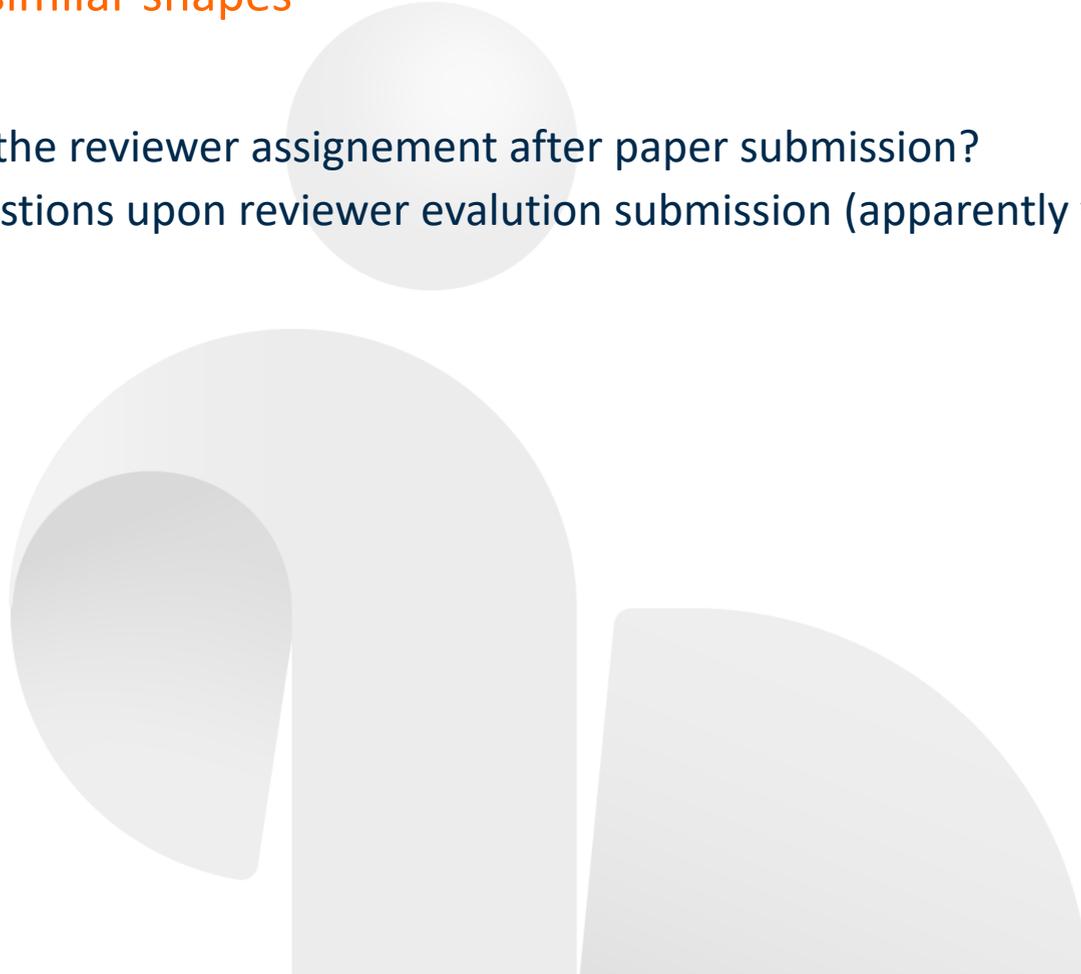
Additional adjustements to the workflow

- Upon participant registration, on the reviewer prompt, display the categories in which the participants has been an author in the previous 3 IPACs.
  - If the participant agrees to be referee, s/he will be considered for these categories (with possibility to opt-out)
  - *Do we have in the Jacow database the MC/sub-C publication record of a participant?*
- Pre-assign 3 reviewer to each LPR abstract (2 primary reviewer + 1 spare). When the paper is submitted, automatically contact the first two reviewer.
- Reviewer notification email inspired by PR-AB:
  - Includes the abstract
  - Ask the reviewer to confirm within 3 days that s/he agrees to review the paper by the deadline
- Automated reminder 1 day before the deadline
- If a reviewer declines or does not answer, contact the 3rd referee.
- Further reviewer unavailabilities will have to be handled manually.
- Automated reminder before evaluation deadline.
  - Proposal: reminder sent on behalf of MC coordinator (more likely to be a known name than SPB coordinator)

Proposed
IPAC'23
workflow

Abstract submitted

Abstract + reviewer Matching

Validation (2)

Contact reviewer #1 and #2

Decline or no aswer

Contact reviewer #3

Decline or no aswer

Assign extra reviewers

Agree

Agree

Evaluation by reviewer: 10 questions

Validation (1)

Participant agrees to be reviewer

Paper submitted

Validation (3)

To be corrected

Accept

Reject

Forward to PR-AB

Very original

Paper accepted

Paper to proceedings only

Validation 1: Does this person qualify to be reviewer (PhD+2 years)?
Validation 2: Check for oddities in matching
Validation 3: Quality assesment on reviewer report / solve conflicts

Author actions

Coordinator actions

Reviewer actions

Automated actions

Abstract/referees matching

- Can we use Todd's script?

- Otherwise we can try to implement something in indico. Proposed algorithm:
  - Group papers &referees by MC (or sub-MC).
  - Assign to each paper a complexity factor (number of continents involved * 10 + number of countries involved)
  - Start with MC with fewer referees
    - Start with papers with highest complexity
    - Randomly assign 3 referees to the paper.
    - Check that the referee do not come from the country of any authors. Otherwise randomly assign another referee.
    - Someone selected as 3rd referee for one paper can also be selected as 3rd referee for 2 others papers (but not as 1st/2nd referee).
    - Once all papers have 3 referees, remaining referees become avalaible to another MC (if they have selected one).
  - Process the other MCs by increasing number of referees available.
  - Try this on IPAC'22 data? (if available)

Proposed timeline

- After LPR abstracts classification and early bird registration deadline:
  - Match LPR abstracts with 3 reviewers authoring abstracts (not necessarily LPR) in the same MC/sub-C, preferably not from the same continent (if not: countries)
  - In case of shortage of reviewers : can we contact the IPAC'22 reviewers and ask them if they would agree to be reviewers for IPAC'23?
- Wednesday IPAC-6 weeks: LPR Submission deadline (5 weeks before deadline for other papers; both deadlines being on Wednesday 23:59)
- Monday IPAC-5 weeks: Deadline for primary reviewers acceptance
- Friday IPAC-5 weeks: 1st reminder to 1st round reviewers
- Friday IPAC-4 weeks: Final reminder to 1st round reviewers
- Monday IPAC-3 weeks: Deadline for 1st round evaluation
- Friday IPAC-3 weeks: Deadline for 1st round judgement by MC coordinators
- Friday IPAC-2 weeks: Deadline for 2nd round evaluation
- Wednesday IPAC-1 weeks:
  - Deadline for final judgement by MC coordinators / SPB
  - Deadline for proceedings papers

Do we want to encourage more paper for LPR?

- If we want to increase the number of LPR papers, we could switch to opt-out instead of opt-in for LPR papers:
  - All abstract submitters would receive an email telling them that if there is original work (even incremental) they are eligible for LPR, in which case they need to submit by the deadline.
  - All authors abstract who have not ticked an opt-out box would receive two reminder emails:
    - one month before
    - one week before the LPR submission deadline.

- LPR is is managed by the Scientific Publication Board (SPB)

- The SPB acts much like the editorial board of a journal.

- SPB membership: has changed over years:
  - The 16 SPC members + three regional chairs (present, past and future) [19 members]

- The present chair, or chief, is from the host region.

- The SPB chairs from the other two regions ensure continuity.

- SPB has administrative support from a person expert in the indico peer review module – typically the scientific secretary.

- In the case of disputes, the present/active SPB chair's decision shall be final.

- Papers will be rejected if a submission or correction deadline is missed.
- Papers are rejected if the review process is not completed by the end of the conference week.
- Each paper shall have two (2) reviewers (plus one (1) spare reviewer).
- Single-blind review (where the reviewers are unknown to the authors).
- **A reviewer shall not know the identity of the other reviewer assigned to the paper.**
- A reviewer shall not contact an author directly concerning their paper.
- Reviewers shall not make any personal remarks, or comments that may betray their identity, when entering the instructions for requested correction/revision of the paper.
- Reviewers must not referee papers of which they are authors or co-authors.
- Only a single cycle of correction(s) by the author(s) is permitted; such cycle shall include the opportunity to respond to correction requests from both reviewers.
- Decisions of the SPB chief shall be final.

- The published work **must not contain clear errors or important factual mistakes**.

- The paper **must include own work**, performed by the authors and not published elsewhere.

- Some aspect or part of the work must be **original** or demonstrate clear progress over other reports of the work.

- The presentation of the results **must be understandable**.

- The paper must be in **good English**.

- Work and related **results by others must be referenced and properly acknowledged**.

- The paper must include **references to literature** that are appropriate.

- Papers are considered **not-correctable** and therefore rejected in following cases:
  - The whole Ansatz is wrong.
  - The work is from somebody else or claiming authorship from somebody else.
  - Requested changes are not implemented in time.

Thank you