

Recent development

of International Classifications

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Overviews

- **IPC**
- Nice
- Locarno
- Vienna

Impact of Covid-19 Pandemic

- IPC/WG/43 & WG/44 & WG/45 Canceled
- Intensive electronic Discussions & Approvals via IPC E-forum
- A "consensus"-based procedure for an enhanced electronic discussion and approval – proposed by the IB & supported by the WG
- IPC/WG/46 Hybrid format (Nov. 8 -10, 2021)
- IPC/WG/47 & IPC/WG/48 (Q2&Q4, 2022)

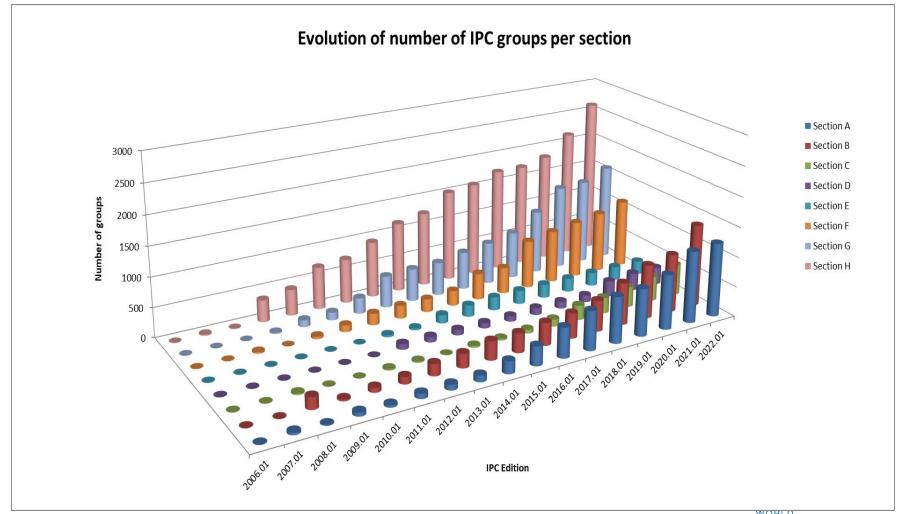
IPC 2022.01

- Available as Early publication at IPCPUB
- Entry into force in Jan. 2022
- 2478 amendments, including 1570 new subdivisions (IPC 2021.01: 1806 amendments, including 969 new subdivisions)

IPC 2022.01

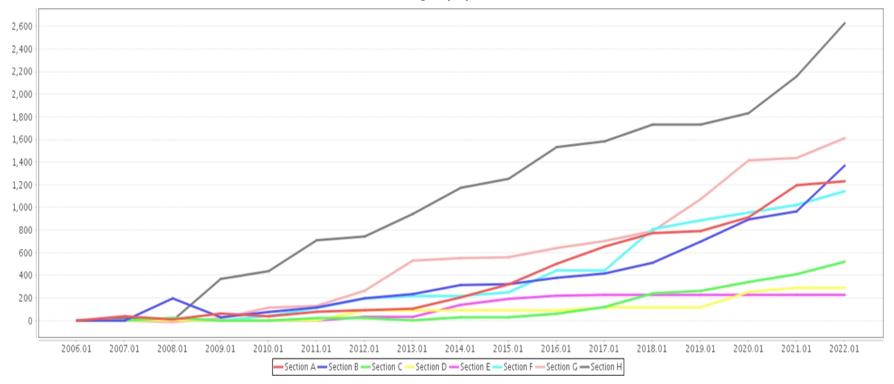
- The evolution this year clearly indicates that technological developments are intensified in the field of physics, in particular, Information and Communication Technology(ICT) (Sections G&H)
- New groups in the following fields to accommodate applications in relation to new technologies.
 - Graphical Data Reading
 - Quantum Computing
 - Data Switching Networks
 - Subclass B01F (Mixing) completely reorganized

The evolution of number of groups of IPC



The evolution of number of groups of IPC

Evolution of number of groups per section since 2006.01





IPC/CE (Committee of Experts)

- 52nd session was held in February 2020
- No Session in 2021
- 53rd Session of the IPC/CE on Feb. 24 & 25, 2022

Response to new emerging technology fields and complex technology fields

New Emerging Technologies

- Machine Learning IPC 2019.01
- Bioinformatics IPC 2019.01
- Internet of Things (IoTs) IPC 2020.01
- Autonomous Road Vehicles IPC 2020.01
- 3D Printing IPC 2015.01&IPC 2020.01&IPC 2021.01
- Graphical Data Reading IPC 2022.01
- Quantum Computing IPC 2022.01
- Data Switching Networks IPC 2022.01

Semiconductor (H01L) (Overly complex areas)

- Expert Group (EGST) was established at CE48 in 2016 to address overly complicated and deeply subdivided structure
- New class(es) approach was decided at CE51
- First physical meeting was held based on the above approach in May 2019
- EGST reported to the IPC/WG/46 about launching of the first set of revision projects from EGST in the coming weeks (three new Subclasses)

Coherent evolution of IPC as a basis for other classification schemes

IP5/WG1 (Working Group on Classification)

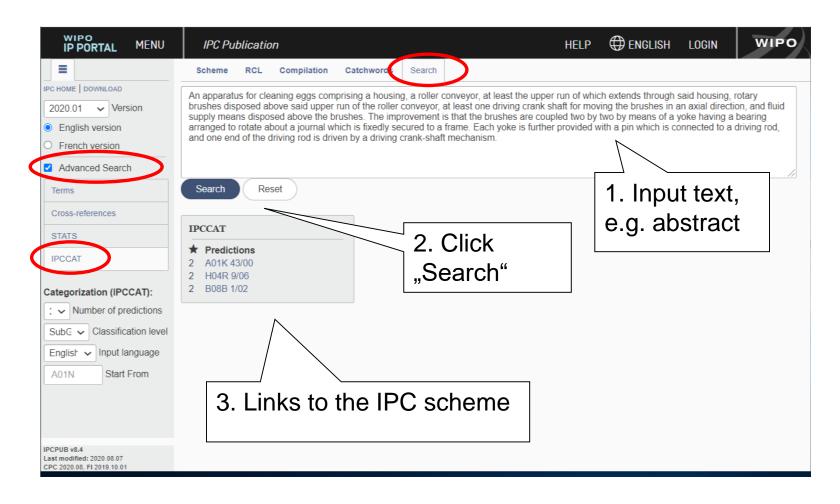
- Two virtual technical sessions were held in March and Oct. 2021 due to the pandemic;
- Promotion of IP5 projects to IPC phase:
 - 5 projects at the virtual session in March 2021
 - 9 projects at the virtual session in Oct. 2021
- New Emerging Technologies Artificial Intelligence (AI), Business Methods; Unmanned aerial vehicles, etc.



IPCCAT Updates - Cross lingual function!

- IPCCAT-neural is now cross lingual in 12 languages
 - Arabic, Chinese, English, <u>Finish</u>, French German, <u>Italian</u>, Japanese, Korean, Portuguese, Russian and Spanish
- The Text length is limited to 1,500 characters
- Classification level and Precision:
 - Subclass level 94.0%
 - Main group level 89.4%
 - Subgroup level 82.0%
- IPCCAT is available through IPCPUB interface or using corresponding web service

IPCCAT





Nice Classification Impact of Covid-19 Pandemic

- CE31 convened as hybrid meeting
- Introduction of preliminary Vote 1 phase (e-voting) through NCLRMS
- Consultation process with Nice Union members led to such a measure – proposed by the IB & supported by majority of Contracting Parties
- Vote 1 considered as an official vote; proposals (without majority support at Vote 1) further discussed at CE31 hybrid meeting and put to postsession Vote 2

RGANIZATION

Nice Classification Impact of Covid-19 Pandemic (contd.)

- 796 proposals submitted to CE31
- 508 proposals adopted by Vote 1 E-voting from 32 participating Offices
- 22 proposals carried forward to next CE session
- 58 proposals adopted at post-session Vote 2



NCL (11-2022)

- 11th edition from January 2017
 - CE postponed entry of 12th edition by one year (NCL12-2023)
 - CE decided to shorten revision period to 3 years (NCL13-2026)
- Post session e-voting (Vote 2) April 2021
- NCLPUB available as Early publication June 2021
- Entry into force in January 2022

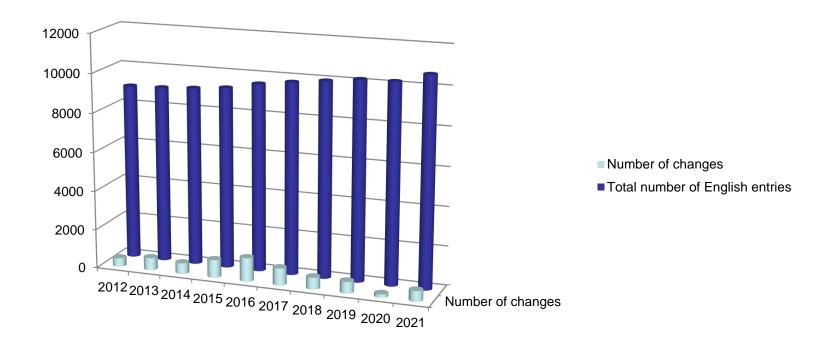


NCL (11-2021)

- 549 modifications including 442 new entries
 - Harmonization of translations
 - Class Heading and Explanatory Notes revision in 12 classes and 1 General Remark



NCL (11-2021)





Future development of Nice Classification

- Nice Classification Revision Management System (NCLRMS)
 - 2-phase Electronic voting

LOC (13)

- Entry into force of LOC(13) in January 2021
- 15th CE meeting foreseen Q1/2022

Future development of Locarno Classification

Locarno Union Committee Experts: Jan. 24-28, 2022

Locarno Classification Revision Management System (LOCRMS)

VCL (8)

- 8th CE meeting February 2021 (postponed from November 2020) convened as hybrid meeting with post-session voting
 - 111 modifications
 - CE decided to shorten revision period to 3 years
- Entry into force of VCL(9) in January 2023

Thank you for your attention!