



Newsletter June, 2018 (V11 N10)

Your CSN (nee CTN, SIGCT, SIGCS) Officers and Leadership Team provide this publication which is intended to notify you about CSN activities, ISTE 2018 conference info, upcoming events, notable news, resources, links and just about anything else that is useful for CSN members. To contribute to this newsletter, please email Joe Kmoch <joe@jkmoch.com>. Social media information (Facebook, Wiki, LinkedIn and Twitter) is located at the end of this newsletter. The entire CSN Leadership Team is listed on our wiki: <http://iste-csn.wikispaces.com/home#Leadership>

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Jorge Valenzuela - winner of the 2018 Computer Science Network Excellence Award

Congratulations Jorge!

A little information about our 2018 CSN winner

[Jorge Valenzuela](#) has served as an educator for the past years and holds both computer science and administrative credentials. He coaches hundreds of educators- both face face and virtually in [Computer Science](#), [Backwards Design Planning](#), [Project-Based Learning \(PBL\)](#) and the internationally acclaimed [Engineering by Design](#) curriculum. He delivers motivational keynotes for universities, school divisions, and educational organizations and is the lead coach for [Lifelong Learning Defined, Inc.](#), a [National Faculty](#) of the [Buck Institute for Education](#) and a National Teacher Effectiveness Coach with the [International Technology and Engineering Educators Association](#).



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Kimberly Lane/ISTE CSN PLN President/Blended Learning Specialist/Lancaster ISD, TX



CSN - the BIG Events Being Planned

ISTE 2018 [Registration and Housing Now Open](#)

New → **List of sessions at ISTE 2018 of interest to our CSN membership.** This annual list is a compilation of sessions throughout ISTE 2018 which we think many CSN members will find interesting. Included are our CSN top picks noted online. As you'll see, there are many more top quality sessions. We've identified over 170 sessions and activities for you as a CSN Member (a bit more than 2017 and far more than 2016 or previous years). Download a copy of the spreadsheet at

[<http://istecsn.pbworks.com/w/file/126763526/CSN-sessions-at-ISTE2018-final.xlsx>](http://istecsn.pbworks.com/w/file/126763526/CSN-sessions-at-ISTE2018-final.xlsx)

update → **CSN and ISTE 2018.** Based on our experiences in the last two years and with your help, we intend to have the following events in the same or similar format:

- **Exciting!!!** → **CS Firehose** - Join the nearly 200 ISTE members who have registered to attend our 3rd Annual CS Firehose... an intense series of interlocking sessions preceding the ISTE Chicago Conference and Exposition the afternoon of Saturday, June 23 rooms 186, 183C and 187C in the McCormick Place West building from 12:30pm - 6:00pm.
 - *Register here:*
[<https://conference.iste.org/2018/program/search/detail_session.php?id=110853402>](https://conference.iste.org/2018/program/search/detail_session.php?id=110853402)
 - *Description here:*
[<https://conference.iste.org/uploads/ISTE2018/HANDOUTS/KEY_110853402/ISTECS2018FirehoseAnnouncement.pdf>](https://conference.iste.org/uploads/ISTE2018/HANDOUTS/KEY_110853402/ISTECS2018FirehoseAnnouncement.pdf)
 - *The Program is here:*
[<https://conference.iste.org/uploads/ISTE2018/HANDOUTS/KEY_110853402/ISTECSFirehose2018Program.pdf>](https://conference.iste.org/uploads/ISTE2018/HANDOUTS/KEY_110853402/ISTECSFirehose2018Program.pdf)

In summary,

Join the ISTE Computer Science Network as we open the valves and turn on the **CS FIREHOSE 2018 with a very special opening keynote from a true champion of computer science education, Dr. Mitch Resnick**, creator of the Scratch programming language and LEGO Papert Professor of Learning Research at the MIT Media Lab.

The ISTE Computer Science Network is dedicated to the promotion of computational thinking and computer science education. The network promotes and provides ideas, resources and events for integrating computational thinking and computer science **into every school and classroom to create equitable access for all students.** The need for CS educational initiatives is urgent with worker shortages throughout the field. To actualize computer science for all, it must be the professional responsibility of all educators to infuse computer science standards and cultivate young minds to think

computationally.

So, be prepared to get **drenched** with new and exciting CS info, resources, and ideas from 12:30 PM through 6:00 PM with sessions provided by quality professional development leaders and educators including those confirmed from Microsoft (ISTE Mission Sponsor), Google for Education (ISTE 2018 Gold Sponsor), WeTeach_CS, MIT Media Lab, Bootstrap, BirdBrain Technologies, Unity3D (ISTE 2018 Silver Sponsor), NCWIT, Heidi Williams (ISTE author of *No Fear Coding*) and many more.

These intense series of interlocking sessions preceding the ISTE Chicago Conference and Exposition the afternoon of Saturday, June 23 in rooms 186, 183C, and 187C of the McCormick Place West building is FREE, but preregistration is necessary via the ISTE conference website. Premium registration is NOT required. Look forward to seeing you there!

- **update → CS/CT Playground** - Our Playground will again be on Sunday, June 25, 2018 from 12:30pm - 4:00pm and be in a high traffic area. We continue our goals to engage those registering and to increase interest in computer science (CS) and computational thinking (CT). Our intent with the exhibits is to not duplicate sessions and posters which occur abundantly throughout ISTE 2018. Instead we find opportunities to engage students and adults to demonstrate exciting technologies being used in classrooms.
 - In one demo area, a team from code.org led by Megan Cicconi will involve visitors with various aspects of the code.org curriculum;
 - In the other demo area, a team from University of Chicago will be demonstrating their Scratch-Encore program and materials along with grades 3-5 math with computer science lessons and their enhancements to the K-2 Robot Turtle Bd Game
 - NCWIT will have a significant presence in our Playground with their Aspirations and Aspire-IT programs as well as their materials.
 - Other hardware and software to learn about and play with include Robolink Co-Drones, BlockCad3D, MADLearn, VidCode, Terrapin robot series (Bee Bot, Pro Bot, etc), Little Bits, ISTE Computer Science series authors, and FuzePlay
 - Many of these exhibits will include students who will help you learn about these exciting computer science and computational thinking enhancements.

- **New → CSN/NCWIT Reception** - Following the CSN Firehose, there will be a **BBQ-Social Networking** event at Weather Mark Tavern, 1503 S. Michigan Ave from 7pm - 9pm on June 23, 2018. There will be plenty to eat and plenty of opportunities to network. **RSVP is required** <<http://bit.ly/CSN18>>. Limited seating, so please hurry. This will be plenty of fun!

The poster has a red and white checkered border at the top and bottom. The top section has a red background with white text. The middle section has a white background with red and black text. The bottom section has a red background with white text. A QR code is located in the bottom right corner.

Computer Science Network & NCWIT

BBQ - Social Networking

Our family is growing - come hungry and ready to network!

 Following the CSN - Firehose
Keynote: Mitch Resnick
Amazing FREE computer science sessions on
Saturday, June 23rd from 12:30 - 6:00 pm.

Weather Mark Tavern
(1503 S Michigan Ave)
7:00 pm to 9:00 pm
June 23rd

RSVP Required
<http://bit.ly/CSN18>

- **CS/CT Strand** throughout the Conference - Look for the sessions identified as CSN Picks for sessions we believe are particularly appropriate to CS and CT in addition to other CS-oriented strands based in other domains
- **The Second Annual CSN Excellence in Education Award Plaque will be awarded to Jorge Valenzuela during ISTE (see the top of this newsletter for more about Jorge).** This recognizes exceptional educators and leaders who are championing the cause of improved Computer Science and Information Technology education. Those recognized demonstrate exemplary work providing a model for teaching, learning and leading in this endeavor.
- **update → CSN Members Discussion** - this get together will happen in the PLN Lounge area W177 on Tuesday from 9:00am - 10:00am. This is an opportunity for the CSN membership and CSN Leadership can talk about the future activities of CSN.

Other CSN activities at ISTE 2018 will include:

- **Collaborators.** We engage these groups: NCWIT, the local CSTA chapter, WeTeachCS.org, CS4TX.org and Code.org in our efforts again.
- Involvement in the **Communities Networking Fair** (Professional Learning Networking Fair) on Sunday, June 24, 2018 from 3:00pm - 5:00pm
- **Activities around our CS/CT book series**
- **Specific K-8 Activities** and Discussions.

If you are interested in helping develop these ideas or have additional ideas, please contact the editor of this newsletter <joe@jkmoch.com>

*** Plan on exciting times at ISTE 2018! ***

Computer Science Network News

updated → Webinars, Webinars, Webinars!

5 Tips for Supercharging your CS Teacher Practice. This webinar presented by ISTE and Code.org provided plenty of practical ideas you can use tomorrow to make your computer science classroom more equitable, active and engaging. Brook Osborne from code.org presented strategies that are based on code.org's highly regarded professional learning program that has served tens of thousands of K-12 educators. You can view the recording of this May 30, 2018 presentation now at <http://iste.adobeconnect.com/p9d9y3trmdn5/> and the slides are available at <https://docs.google.com/presentation/d/1Jbolrfmb5j5IPK2-uJtP8DwzH6V47G6VCjvdWTLDTLE/edit>

Foundations of Coding in the Early Years. This webinar was hosted by the Early Learning Network in mid-April, 2018. Simon Helton posted a topic in the CSN Discussion Forum and provided this [link to register for it](#) and receive a link to the recorded archive of this webinar. <https://docs.google.com/forms/d/e/1FAIpQLSdoTx_IMNIREqZBaSOOqolSYvH7wh6ymZla-lv_QY_Ts54sfg/viewform>

Recent NASA Webinar with tremendous set of resources.



Here is the [archive](#) from the workshop:

Resources from the virtual workshop - please see the [April, 2018](#) issue of this newsletter

Another excellent webinar with plenty of great resources → Google's Resources for K-12 Computer Science. Tiffany Walter - the Educational Program Manager from Google presented the large variety of resources freely available from Google. Prizes were given away at the end of the webinar (see what you missed by not attending live?!). This webinar, originally recorded in mid-March, 2018, is archived at <<http://iste.adobeconnect.com/pry8l5z15nei/>> and definitely worth your time. This is part of our CSN Webinar series.

A super important topic and the basis for CSForAll (and we really mean ALL) → Digital Equity in Computer Science. A discussion focused around this topic presented by the ISTE Digital Equity (DE) PLN. Panelists included our own CSN President, Kimberly Lane Clark, a Blended Learning Specialist in Texas; Jason Chong, Teacher on Special Assignment in Fullerton, CA; Tara Linney, Ed Tech Coach; and Wes Kriesel, Director of Innovation and Instructional Support. Kim and Tara have both recently presented webinars that are listed here. <<http://bit.ly/DEwebFeb2018>>

Another recent webinar from our CSN President, Kimberly Lane → Integrating CS Across the Curriculum. Our CSN President, Kimberly Lane, led this ISTE Expert Webinar in late January, 2018. Just like reading and writing, knowledge of computer science is foundational for all students in the digital age, and yet many schools don't teach it, especially in elementary grades. In this webinar, participants will learn how to begin to integrate computer science into curriculum using Code.org, Scratch, Google CS First and many other resources. To view this webinar go to <<http://iste.adobeconnect.com/pb7pihuvsra6/>>

ISTE Professional Learning Series Archives

Go to <<https://www.iste.org/events/webinars>> and scroll down to view these archives.

You'll likely be interested in the following:

- **Bring Coding into your Classroom** - an ISTE/Verizon/Innovative Learning webinar originally presented on November 28, 2017; access the link to the recorded [archive](#) (approx. 63 min.), related resources from the webinar, additional ISTE resources (see the December newsletter for much more detail available [here](#)).
- [CoDrone and Coding in the Classroom](#) -
- [Coding for All](#)
- [Coding in the Curriculum](#) -
- [Girls CAN Code](#)
- Note - detail for each of these is in the December newsletter available [here](#)

As we develop our CSN Webinar series into the future, we certainly invite your ideas and interest in volunteering. Please contact our Professional Development chair, Heidi Williams <heidi@stretchinstructor.com>, with your ideas and your interests. Eight webinars from previous years are at our wiki site <<http://iste-ctn.wikispaces.net/Current+Webinars>>

Computing Education News

reminders:

I think we need more women in STEM because.

[New videos from Code.org.](#)

[Stack Exchange for CS Educators](#)

[Careers with Code 2017.](#)



new stuff → CS for All Newsletter. This excellent resource is available if you [Join the CSForAllTeachers Community](#) and sign up for the CS for All Teachers Notifications and the Newsletter. Recent blog posts, upcoming webinars and resources are noted in their weekly newsletter. Here are recent entries:

Blog Posts

- [Access to free PD from CodeHS!](#) published on 2018-05-21 15:46
- [WEBINAR - Choosing the Right Tool: App Lab or Game Lab?](#) published on 2018-05-30 16:25
- [Calling all teacher leaders: Apply to serve as a community ambassador by Sunday, June 3 at 9pm ET!](#) published on 2018-05-31 12:37
- [WEBINAR - CSP and Other CS PD Summer Opportunities. How do you pick one that works for you?](#) published on 2018-05-31 22:13

EVENTS - Recent and Upcoming:

- [WEBINAR - Choosing the Right Tool: App Lab or Game Lab?](#) on 2018-05-29 19:30
- [WEBINAR - Unplugged and Plugged Activities for Teaching CS in Elementary](#) on 2018-05-22 19:30
- [WEBINAR - CSP and Other CS PD Summer Opportunities. How do you pick that one that works for you?](#) on 2018-06-04 19:30
- [Counselors for Computing Workshop](#) on 2018-07-30 08:00
- [Mobile CSP-PD: Their site lists a number of online, in-person and extended PD through the summer, 2018](#)
- [BJC CSP PD -Their site lists a number of PD opportunities](#) through the summer, 2018
- STEM for All Video Showcase - Transforming the Educational Landscape from May 14-21, 2018 - save the dates; <http://stemforall2018.videohall.com> and <http://bit.ly/stem-video-showcase>

CS in the Wild

DISCUSSIONS:

- [Unplugged and Plugged Activities for Teaching CS in Elementary](#) updated on 2018-05-30 13:04
- [How do you use Virtual Reality in your Classroom?](#) updated on 2018-04-19 19:37

RESOURCES:

- [Student-identified challenges in CSP](#) updated on 2018-05-31 11:53
- [Priming the CS Teacher - a report by a NSF sponsored event](#) updated on 2018-04-24 14:53

ECS Open Group

DISCUSSIONS:

- [Are you using the Edison Robot for Unit 6?](#) updated on 2018-05-09 13:13
- [StemForAll 2018 Video Showcase This week 5/14-5/21](#) updated on 2018-05-16 19:20

Student Opportunity

new → [CoderGirls](#) - Help grow computer science education for girls! CoderGirls chapters are free programs for K-12 girls to learn computer science in a new and innovative way using the extensive curriculum available. Chapters exist in many states and in a number of other countries. Establishing chapters are mostly done by high school females. This would seem to be an opportunity for an NCWIT Aspirations in Computing awardee to take advantage of the NCWIT Aspire-IT grant and start a chapter. The How to Get Involved link on their website <<http://www.codergirls.org/involve>> provides lots of information.



One very interesting feature are very specific courses including MIT AppInventor to Create Apps, Python with EarSketch to Make Music, JavaScript to Animate, Scratch to Draw & Animate, HTML & CSS to Make a Website and C++ for Hardware Coding. Each courses has a language and a context. <<http://www.codergirls.org>>

Professional Development/Conference Opportunities

New → [WeTeach_CS Summit 2018](#). The WeTeach_CS Summit is a 3-day event which educates, empowers, and inspires K-12 CS teachers, advocates, administrators, professional development providers, university instructors, and policy-makers to advance the goal of CS for All in Texas and beyond. This excellent conference will be held June 18-20, 2018 at Georgetown, TX (near Austin). Registration opens March 28, 2018. Full details at: https://www.weteachcs.org/event/weteach_cs-summit-2018/



WeTeach_CS

[CSTA 2018 Annual Conference](#). Get ready for this always excellent conference totally focused on K-12 computer science. The dates are July 7-10, 2018 in Omaha, NE. Plenty of workshops, sessions, opportunities to network and have fun together with colleagues from across the country who share the same joys. <<https://www.csteachers.org/page/2018conference>>



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Reminder → [Logo Summer Institutes](#). Plans for the 2018 Logo Summer Institutes are underway. The following are confirmed with more dates and locations to be announced shortly

- June 11-14, 2018 in Austin Texas
- July 9-12, 2018 in New York City

These workshops are intensive immersions in creative computing for K-12 teachers, parents and technology integrators. Their approach to teaching and learning is progressive, project-based, and learner-centered. Learn to code as you explore and create projects using Scratch, Makey Makey, Hummingbird, Arduino and a variety of other hardware and software platforms. For more information and to register visit <<http://logofoundation.org/summer>>

Remindeer → [Scratch@MIT Conference: The Next Generation](#). Join us for the



Scratch@MIT conference on July 26-28, 2018 in Cambridge, MA. This is a playful gathering of educators, researchers, developers, and other members of the worldwide Scratch

community. We're planning a very participatory conference, with an entire day of hands-on workshops and lots of opportunities for peer-to-peer discussion and collaboration. The conference is intended primarily for adults who support young people learning Scratch. Registration is open NOW. <<https://scratch.mit.edu/conference/>>

For your future planning → Plans are already being made for the next Scratch Day on



December 1, 2018 at Teachers College, Columbia University, New York City. There will be workshops on a wide range of Scratch topics for Scratch beginners and those who have been Scratching for years. Scratch Day is for people of all ages

- Teachers, bring your students!
- Parents, bring your children!
- Children, bring your parents and teachers!

Please go to <<http://logofoundation.org/scratchday>> to see what happened at Scratch Day in December, 2017 and in previous years.

NEW → *Your Reading Assignment*

Careers With Code. Careers with Code is a magazine that inspires high school students to use problem solving computer science skills to create the future. Careers with Code redefines stereotypes around what a computer science career can be. It's a one-stop magazine for resources, step-by-step checklists and inspiring ideas to help students create their computer science pathway.



<<https://careerswithcode.com/careers-with-code-magazine/>>

Here's an assignment for you - find an article you'd like to have your

students read and **create a little lesson around it** - encourage discussion, maybe do some research. If you send them to the editor Joe Knoch <joe@jkmoch.com> we can include them in future Newsletter issues.

Note that you can purchase copies for \$5 each or \$4 each for 11-50 copies, down to \$2 each for 101+ copies. You can also purchase the 2016 version for \$1 each.

... From the May, 2018 issue of this newsletter

Priming the Computer Science Teacher Pump. This recently released report focuses on integrating computer science education into Schools of Education. This is an excellent report based on a workshop held earlier in 2018. There are many ideas and recommendations which apply to both pre- and inservice teachers. This is worth the time to read.

<<https://s3.us-east-2.amazonaws.com/home4cs/Priming+the+CS+Teacher+Pump+Report+FINAL+FINAL+.pdf>>

... From the April, 2018 issue of this newsletter

Tech industry's diversity efforts haven't lived up to promises. A new report explains why.

While not directly applicable to the high school classroom, this provides some insight into the issues around diversity in CS/IT.

<<https://www.usatoday.com/story/tech/2018/02/28/diversity-freeda-kapor-klein-kapor-center-report-leaky-pipeline/378295002/>>

Diversity Gaps in Computer Science. Continuing on the diversity theme, Google and Gallup continue working together on research in this area. This partnership identifies structural and social barriers students face at home, in schools and in society that could influence their likelihood to enter the computer science field. This is a 2016 report but bears repeating.

<<http://news.gallup.com/reports/196331/diversity-gaps-computer-science.aspx>>

Five Approaches to Closing the Soft Skills Gap - very important in CS and Computational Thinking, the 21st Century Skills will allow students to more fully participate in our technology-driven future. "Whether you call them soft skills, workforce-ready skills, or 21st century skills, discover how businesses are partnering with school districts to equip students with the necessary skills to succeed in college and careers. This resource provides practical recommendations for businesses and schools seeking to make an impact together and profiles five successful partnerships established by Nike, Ernst & Young, Wegmans, Wynn Las Vegas, and the Northern Kentucky Education Council." You can get this report by going to this Education Week site <<https://fs24.formsite.com/edweek/form466/fill?7=EBLAST>> Then go ahead and read it and let's discuss!

Monthly CSN Newsletter readings January 2018 - March 2018

<<http://istecsn.pbworks.com/w/page/125926169/Monthly-Newsletter-Readings>>

Monthly CSN Newsletter readings Oct 2012 - December 2017

...please contact the editor, Joe Knoch <joe@jkmoch.com>

National Center for Women and IT (www.ncwit.org)



The National Center for Women & Information Technology (NCWIT) is a non-profit community of more than 1,100 universities, companies, nonprofits, and government organizations nationwide working to increase girls' and women's meaningful participation in computing. NCWIT equips change leaders with resources for taking action in recruiting, retaining, and advancing women from K-12 and higher education through industry and entrepreneurial careers.

Find out more at www.ncwit.org/resources or email us at info@ncwit.org

NCWIT Resource of the Month:

Get new posters below

Top 10 Ways Families Can Encourage Girls' Interest in Computing

www.ncwit.org/top10families



Technology is a fast-growing, high-paying, creative field. Here are 10 ways that you, as a family member, can encourage the girls in your life to study, and have a career in, computer science and related technology fields.

Visit www.ncwit.org/resources for additional resources; email info@ncwit.org to request hardcopy resources.

LOOK → HOW TO GET THESE FREE POSTERS and other C4C materials

To get the C4C Counselors Kit: <https://www.ncwit.org/counselors-computing-c4c-kit-request-form>

To get the Posters + related material: <https://www.ncwit.org/resources/stephanieweiber/c4c-plus-kit>

To get just the Posters: <https://www.ncwit.org/resources/customcatalog/c4c-posters>

Several links...

If you have favorite links you'd like to share (we could use some on IT topics such as networking, support, information systems and web design), please email Joe Kmoch.

< joe@jkmoch.com >

This month...

CatsWhoCode.com This is a blog for coders of websites. The emphasis seems to be on WordPress. This is definitely not for beginners but as an educator involved in teaching website development, you might find some things useful. Also, if a student gets pretty advanced, there might be some ideas for her. My only reservation is that in all of my perusing the site, I only saw one woman's name mentioned. That being said, it might be worth your time to check on this blog once in awhile. <<http://catswhocode.com>>

[Hello World](http://HelloWorld.raspberrypi.org). This periodical is published by raspberrypi.org in the UK and seems to have some interesting articles. In the current (Spring 2018) issue, there are articles on

- How to become a computing educator
- Run successful events with the public
- Finding the next generation of security experts
- Object Oriented coding with Python

It's free to download. One of the authors in this issue is Gary Stager, co-author of the highly recommended Intent to Learn - Making, Tinkering and Engineering in the Classroom. Probably worth download and reading, maybe subscribing and even getting free back issues, too. <<https://helloworld.raspberrypi.org/issues/4>>

Contact Joe Kmoch <joe@jkmoch.com> to include an item in the next issue.

Social media links:

- CSN Community: <http://bit.ly/computing_teachers_network> (site registration needed)
- CSN on Facebook: <<https://www.facebook.com/pages/ISTE-CTN/132261473482000>>
- CSN on ISTE Wiki: <<http://iste-csn.wikispaces.com>> also <<http://istecsn.pbworks.com>>
- CSN on LinkedIn: <<https://www.linkedin.com/groups/6784194/profile>>
- CSN on Twitter: <https://twitter.com/ISTE_CTN>

reminder → Joining the ISTE Website and Communities. If you have not already signed up for our Computer Science Network **please visit the site**

<<http://connect.iste.org/connect/learningnetworks>>, choose Computing Teachers Network.

Appendix

reminder → Journal for Computing Teachers (JCT)



The Journal for Computing Teachers (JCT) Fall 2015 issue is now available in the resources section of the ISTE.org website

<<http://www.iste.org/resources/searchresults?searchterms=jct>>. There you'll actually see all of the complete issues for the past few years. You can go directly to the Fall 2015 issue by surfing to

<<https://www.iste.org/resources/product?ID=3772>>. Soon it will also be on our CTN Wikispace.

Our editor Lucianne Brown is currently looking for papers and articles for the **Winter 2018 JCT**. The editor and our peer reviewers professionally offer critical suggestions for the writers to edit and produce a high quality article. If you have any questions, contact Lucianne Brown, Editor of JCT at docbrown1944@gmail.com or lbrown3@govst.edu

JCT is the only refereed journal oriented around K-12 computing education and one of only three journals published by ISTE. The previous complete JCT issues are available online along with the new current issue. Head to this url:

<<https://www.iste.org/store/publications/downloads/jct>>