Package 'imotionsApi'

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```
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2 imotionsApi-package

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imotionsApi-package $iMotions\ R\ API\ package$

Description

A client for accessing data from the iMotions Biometrics Research Platform.

Details

Use tokens (found on a study's R Analysis page) to load information from the iMotions API

See Also

Useful links:

- https://imotions.com
- https://my.imotions.com/#studies

```
myToken <- "xxxxx-xxxx-xxxxx-xxxxx"
connection <- imotionsApi::imConnection(myToken)</pre>
```

${\tt convertRecordingTsToIntervals}$

Convert recording's timestamps (relative to data recording start) into stimulus/scene/AOI timestamps (relative to the interval first fragment start). Fragments are concatenated to give new array of timestamps in range [0, concatenated duration of stimulus/scene/AOI].

Description

Timestamps falling between an interval start/end will be kept, others will be discarded.

Usage

```
convertRecordingTsToIntervals(recordingTs, intervals)
```

Arguments

recordingTs An array of recording's timestamps (relative to data recording start). Scalar,

imSignals object as returned by getSensorData or data.table with a column

Timestamp are also accepted.

intervals An imInterval or imIntervalList object with start/end of a stimulus/scene/AOI as

given by getRespondentIntervals or getAOIRespondentData.

Value

A new array/scalar/data.table with timestamps in range [0, concatenated duration of stimulus/scene/AOI].

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::mStudy(connection, studies$id[1])
respondents <- imotionsApi::getRespondents(study)
sensors <- imotionsApi::getRespondentSensors(study, respondents[1, ])
signals <- imotionsApi::getSensorData(study, sensors[3, ])
intervals <- imotionsApi::getRespondentIntervals(study, respondents[1, ])
# get a new signal with timestamps in range [0, concatenated duration of stimulus/scene/AOI].
signals <- imotionsApi::convertRecordingTsToIntervals(signals, intervals[1, ])
## End(Not run)</pre>
```

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createExport	Create an export file at a specific location and append metadata to it if provided. Note that a column with the study name will be appended to each export
	to each export.

Description

Create an export file at a specific location and append metadata to it if provided. Note that a column with the study name will be appended to each export.

Usage

```
createExport(study, data, outputDirectory, fileName, metadata = NULL)
```

Arguments

study An imStudy object as returned from imStudy.

data A data.table containing the export metrics to save.

outputDirectory

The path where the file should be created.

fileName The name of the file to create (should finish with .csv).

metadata Optional - a data.table with metadata information. Column names will be con-

verted to metadata headers and there must be a row corresponding to each data

column.

Examples

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
data <- data.frame("Respondent Name" = "Test", "Metric1" = seq(1:100), "Metric2" = rep(0, 100))
createExport(study, data, outputDirectory = "C:/Documents", fileName = "textExport.csv")

# Adding some metadata to the data
metadata <- data.table("Units" = c("", "ms", ""), "Description" = c("Desc1", "Desc2", "Desc"))
createExport(study, data, outputDirectory = "C:/Documents", fileName = "textExport.csv", metadata)
## End(Not run)</pre>
```

getA0I

Get a specific AOI from a study.

Description

Available AOIs can be found with getAOIs. In case no AOI is found, return NULL.

Usage

```
getAOI(study, AOIId)
```

getAOIRespondentData

Arguments

An imStudy object as returned from imStudy.

AOIId The id of the AOI you would like to retrieve.

Value

An imAOI object (data.table) containing the AOI of interest.

Examples

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
AOIs <- imotionsApi::getAOIs(study)
AOI <- imotionsApi::getAOI(study, AOIs$id[1])
## End(Not run)</pre>
```

getAOIRespondentData

Get the inOutGaze information, inOutMouseClick information and AOI's intervals for a specific AOI/respondent combination. Note that imAOI object, by definition, are linked to a specific stimulus.

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Description

The inOutGaze data.table has a IsGazeInAOI column that is TRUE when a gaze was recorded inside the AOI and FALSE if outside (timestamps correspond to the actual gazepoint Timestamp). To reduce the size of the file created, only timestamps where a change of value occur are given. If the AOI was never active, the table is empty.

Usage

```
getAOIRespondentData(study, AOI, respondent)
```

Arguments

An imStudy object as returned from imStudy()

AOI An imAOI object as returned from getAOIs.

respondent An imRespondent object as returned from getRespondents.

Details

The inOutMouseClick data.table has a IsMouseInAOI column that is TRUE when a click was recorded inside the AOI and FALSE if outside (timestamps correspond to the actual Timestamp of each click). If no click was recorded or if the AOI was never active, the table is empty.

Value

A list with inOutGaze/inOutMouseClick information for the specific AOI/respondent combination and an imIntervalList object (data.table) composed of the start, end, duration, id and name of this AOI.

Examples

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
AOIs <- imotionsApi::getAOIs(study)
respondents <- imotionsApi::getRespondents(study, AOI = AOIs[1, ])
AOIData <- imotionsApi::getAOIRespondentData(study, AOIs[1, ], respondents[1, ])
# Retrieving list items
inOutData <- AOIData$inOutData
intervals <- AOIData$intervals</pre>
## End(Not run)
```

getAOIRespondentMetrics

Get the metrics for a specific AOI/respondent combination.

Description

Get the metrics for a specific AOI/respondent combination.

Usage

```
getAOIRespondentMetrics(study, AOI, respondent)
```

Arguments

An imStudy object as returned from imStudy()
An imAOI object as returned from getAOIs.

respondent An imRespondent object as returned from getRespondents.

Value

A data.table of one row (imMetrics object) with metrics for the AOI /respondent combination of interest.

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
AOIs <- imotionsApi::getAOIs(study)
respondents <- imotionsApi::getRespondents(study, AOI = AOIs[1, ])
AOImetrics <- imotionsApi::getAOIRespondentMetrics(study, AOIs[1, ], respondents[1, ])
## End(Not run)</pre>
```

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getAOIs	Get AOIs from a study.	

Description

Generic getAOIs function that takes as parameter a study object and optionally a respondent/stimulus object. In case no AOIs is defined for the combination, return NULL.

Usage

```
getAOIs(study, stimulus = NULL, respondent = NULL, generateInOutFiles = FALSE)
```

Arguments

study An imStudy object as returned from imStudy.

stimulus Optional - An imStimulus object as returned from getStimuli.

respondent Optional - An imRespondent object as returned from getRespondents.

generateInOutFiles

A boolean indicating whether the corresponding InOut files should be generated and linked to each imAOI object.

Details

Important to note: to speed up the computation of gazes falling in/out AOIs at the respondent/stimulus level, an optional parameter generateInOutFiles can be enabled (both stimulus AND respondent arguments need to be provided). When enabled, a file will be generated for each AOI of this stimulus/respondent combination containing information regarding AOI activation/deactivation and gazes/clicks falling in. Filepaths to these newly generated files will be stored in their corresponding AOI object. If available, these filepaths will then directly be used by the getAOIRespondentData function instead of re-generating the files. This is particularly useful in case multiple AOIs are defined for the same stimulus.

Value

An imAOIList object (data.table) with all AOIs of interest.

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
stimuli <- imotionsApi::getStimuli(study)
respondents <- imotionsApi::getRespondents(study)

## Get all AOIs in the study
AOIs <- imotionsApi::getAOIs(study)

## Get all AOIs defined for a specific stimulus
AOIs <- imotionsApi::getAOIs(study, stimulus = stimuli[1, ])

## Get all AOIs defined for a specific respondent</pre>
```

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getRespondent

Get a specific respondent from a study.

Description

Available respondents can be found with getRespondents.

Usage

```
getRespondent(study, respondentId)
```

Arguments

study An imStudy object as returned from imStudy.

respondentId The id of the respondent you would like to retrieve.

Value

An imRespondent object (data.table) containing the respondent of interest.

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
respondents <- imotionsApi::getRespondents(study)
respondent <- imotionsApi::getRespondent(study, respondents$id[1])
## End(Not run)</pre>
```

getRespondentIntervals

```
getRespondentIntervals
```

Get the list of time intervals (imIntervalList) for a given respondent.

Description

This imIntervalList is composed of stimuli/scenes/annotations intervals. Note that AOIs intervals can be retrieved using getAOIRespondentData.

Usage

```
getRespondentIntervals(
   study,
   respondent,
   type = c("Stimulus", "Scene", "Annotation")
)
```

Arguments

study An imStudy object as returned from imStudy.

respondent An imRespondent object as returned from getRespondents.

type The type of intervals to retrieve (can be set to Stimulus, Scene and/or Annota-

tion).

Value

An imIntervalList object (data.table) composed of the start, end, duration, parent stimulus, id and name of each stimulus/scene/annotation. Annotations comments are also included.

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
respondents <- imotionsApi::getRespondents(study)
intervals <- imotionsApi::getRespondentIntervals(study, respondents[1, ])
# Get only the stimuli intervals
intervals <- imotionsApi::getRespondentIntervals(study, respondents[1, ], type = "Stimulus")
## End(Not run)</pre>
```

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getRespondents

Get respondents from a study.

Description

Generic getRespondents function that takes as parameter a study object and optionally a stimulus/AOI/segment object. As AOIs are linked to a stimulus, it is not possible to provide both of them.

Usage

```
getRespondents(
  study,
  stimulus = NULL,
  AOI = NULL,
  segment = NULL,
  keepRespondentVariables = FALSE
)
```

Arguments

study An imStudy object as returned from imStudy.

stimulus Optional - An imStimulus object as returned from getStimuli.

AOI Optional - An imAOI object as returned from getAOIs.

segment Optional - An imSegment object as returned from getSegments.

keepRespondentVariables

Optional - A boolean indicating whether respondent variables should be kept (if they are available). If this has the default value of FALSE, only the "group" variable is exposed.

Value

An imRespondentList object (data.table) with all respondents of interest.

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
stimuli <- imotionsApi::getStimuli(study)
segments <- imotionsApi::getSegments(study)
AOIs <- imotionsApi::getAOIs(study)

## Get all respondents in the study
respondents <- imotionsApi::getRespondents(study)

## Get all respondents exposed to a specific stimulus
respondents <- imotionsApi::getRespondents(study, stimulus = stimuli[1, ])
## Get all respondents in a specific segment</pre>
```

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```
respondents <- imotionsApi::getRespondents(study, segment = segments[1, ])
## Get all respondents for whom a specific AOI has been defined
respondents <- imotionsApi::getRespondents(study, AOI = AOIs[1, ])

## Get all respondents in a specific segment exposed to a specific stimulus
respondents <- imotionsApi::getRespondents(study, stimulus = stimuli[1, ], segment = segments[1, ])

## Get all respondents in a specific segment for whom a specific AOI has been defined
respondents <- imotionsApi::getRespondents(study, AOI = AOIs[1, ], segment = segments[1, ])

## Get all respondents in the study and access their available variables
respondents <- imotionsApi::getRespondents(study, keepRespondentVariables = TRUE)

## End(Not run)</pre>
```

getRespondentSensors Get all sensors available for a given respondent.

Description

Retrieves detailed information about sensors available for a given respondent.

Usage

```
getRespondentSensors(study, respondent, stimulus = NULL)
```

Arguments

study An imStudy object as returned from imStudy.

respondent An imRespondent object as returned from getRespondents.

stimulus Optional - an imStimulus object as returned from getStimuli to retrieve sensors

specific to this stimulus.

Value

An imSensorList object (data.table) with all sensors collected for the respondent of interest.

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
respondents <- imotionsApi::getRespondents(study)
sensors <- imotionsApi::getRespondentSensors(study, respondents[1, ])
# Get sensors for a specific stimulus
stimuli <- imotionsApi::getStimuli(study)
sensors <- imotionsApi::getRespondentSensors(study, respondents[1, ], stimuli[1, ])
## End(Not run)</pre>
```

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getSegment

Get a specific segment from a study.

Description

Available segments can be found with getSegments.

Usage

```
getSegment(study, segmentId)
```

Arguments

study An imStudy object as returned from imStudy.
segmentId The id of the segment you would like to retrieve.

Value

An imSegment object (data.table) containing the segment of interest.

Examples

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
segments <- imotionsApi::getSegments(study)
segment <- imotionsApi::getSegment(study, segments$id[1])
## End(Not run)</pre>
```

getSegments

Get all segments from a study.

Description

Retrieves detailed information about segments in the study.

Usage

```
getSegments(study)
```

Arguments

study

An imStudy object as returned from imStudy.

Value

An imSegmentList object (data.table) containing all segments from the study.

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Examples

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
segments <- imotionsApi::getSegments(study)
## End(Not run)</pre>
```

getSensorData

Download data corresponding to a specific sensor (signals/metrics).

Description

Available sensors in your study can be listed using the getRespondentSensors.

Usage

```
getSensorData(study, sensor, signalsName = NULL, intervals = NULL)
```

Arguments

study An imStudy object as returned from imStudy.

sensor An imSensor object as returned from getRespondentSensors.

signalsName Optional - A vector of specific signals name you would like to return.

intervals Optional - An imInterval or imIntervalList object with start/end of data to subset

as given by getRespondentIntervals.

Details

Signals always have a "Timestamp" column and are unique to a given respondent and a given sensor source. Metrics are stored as a special sensor, also specific to a given respondent.

Value

An imData object (data.table) containing the signals (imSignals) or metrics (imMetrics) for the sensor of interest.

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
respondents <- imotionsApi::getRespondents(study)
sensors <- imotionsApi::getRespondentSensors(study, respondents[1, ])
data <- imotionsApi::getSensorData(study, sensors[1, ])
## End(Not run)</pre>
```

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getSensorMetaData	Download metadata corresponding to a specific sensor (sensor and
0	signals metadata).

Description

Available sensors in your study can be listed using the getRespondentSensors.

Usage

```
getSensorMetaData(sensor)
```

Arguments

sensor

An imSensor object as returned from getRespondentSensors.

Details

Metadata contains sensor metadata and signal metadata

Value

A list of two data frames containing respectively the sensor and the signals metadata.

Examples

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
respondents <- imotionsApi::getRespondents(study)
sensors <- imotionsApi::getRespondentSensors(study, respondents[1, ])
metadata <- imotionsApi::getSensorMetaData(study, sensors[1, ])
## End(Not run)</pre>
```

getStimuli

Get all stimuli from a study.

Description

Retrieves detailed information about stimuli in the study.

Usage

```
getStimuli(study, respondent = NULL, relevant = TRUE)
```

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Arguments

study An imStudy object as returned from imStudy.

respondent Optional - An imRespondent object as returned from getRespondents.

relevant A boolean indicating whether only relevant stimuli should be kept, by default

non-relevant stimuli are discarded.

Value

An imStimulusList object (data.table) containing all stimuli from the study.

Examples

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
respondents <- imotionsApi::getRespondents(study)

## Get all stimuli in the study
stimuli <- imotionsApi::getStimuli(study)

## Get all stimuli for a specific respondent
stimuli <- imotionsApi::getStimuli(study, respondents[1, ])

## End(Not run)</pre>
```

getStimulus

Get a specific stimulus from a study.

Description

Available stimuli can be found with getStimuli.

Usage

```
getStimulus(study, stimulusId)
```

Arguments

study An imStudy object as returned from imStudy.

stimulusId The id of the stimulus you would like to retrieve.

Value

An imStimulus object (data.table) containing the stimulus of interest.

16 imStudy

Examples

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
stimuli <- imotionsApi::getStimuli(study)
stimulus <- imotionsApi::getStimulus(study, stimuli$id[1])
## End(Not run)</pre>
```

imConnection

Create a connection with the iMotions API.

Description

Tokens can be found on a study's R Analysis page or given directly by the iMotions software

Usage

```
imConnection(token, baseUrl = "https://my.imotions.com/api")
```

Arguments

token The token to be used for authentication.

default.

Value

An imConnection object to be passed to other methods.

Examples

```
## Not run:
myToken <- "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxx"
connection <- imotionsApi::imConnection(myToken)
## End(Not run)</pre>
```

imStudy

Load an iMotions study by id.

Description

Retrieves detailed information about a study including stimuli, respondents, segments, and more.

Usage

```
imStudy(connection, studyId)
```

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Arguments

 $\label{lem:connection} \textbf{An imConnection object as returned from imConnection.}$

studyId The id of the study you would like to retrieve.

Details

Available studies can be found with listStudies.

Value

An imStudy object to be passed to other methods.

Examples

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
studyId <- studies$id[1]
study <- imotionsApi::imStudy(connection, studyId)
## End(Not run)</pre>
```

listLoadedStudies

List studies that have been loaded in the current session.

Description

More detailed information about a study can be retrieved using imStudy.

Usage

```
listLoadedStudies()
```

Value

A list of the studies that have been loaded in the current session.

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
studyId <- studies$id[1]
study <- imotionsApi::imStudy(connection, studyId)
listLoadedStudies()
## End(Not run)</pre>
```

listStudies

List available studies.

Description

More detailed information about a study can be retrieved using imStudy.

Usage

```
listStudies(connection)
```

Arguments

connection

An imConnection object as returned from imConnection.

Value

A data frame containing names and ids of studies.

Examples

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
## End(Not run)</pre>
```

```
\verb"privateAOIFiltering.imRespondent"
```

Get AOIs for a specific respondent.

Description

S3 method to get all AOIs for a specific respondent.

Usage

```
## S3 method for class 'imRespondent'
privateAOIFiltering(study, stimulus = NULL, respondent)
```

Arguments

study An imStudy object as returned from imStudy.

stimulus Optional - An imStimulus object as returned from getStimuli.

respondent An imRespondent object as returned from getRespondents for which you want

to get the AOIs.

Value

A data.table with all AOIs defined for a specific respondent.

truncateSignalsByIntervals

Truncate signals data based on given intervals.

Description

Any interval combination can be asked. Timestamps falling between an interval start/end will be kept, others will be discarded. If dropIntervals is set to TRUE, Timestamps falling between an interval start/end will be discarded.

Usage

```
truncateSignalsByIntervals(signals, intervals, dropIntervals = FALSE)
```

Arguments

An imSignals object as returned by getSensorData or a data.table including a "Timestamp" column that needs to be cut.

An imInterval or imIntervalList object with start/end of data to subset as given by getRespondentIntervals or getAOIRespondentData.

dropIntervals

A boolean indicating whether Timestamps falling between an interval start/end should be discarded, by default there are kept and other Timestamps are re-

should be discarded, by default there are kept and other Timestamps are re-

moved.

Value

A truncated imSignals object.

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
respondents <- imotionsApi::getRespondents(study)
sensors <- imotionsApi::getRespondentSensors(study, respondents[1, ])
signals <- imotionsApi::getSensorData(study, sensors[3, ])
intervals <- imotionsApi::getRespondentIntervals(study, respondents[1, ])

# get the 3 first intervals
dataSubset <- imotionsApi::truncateSignalsByIntervals(signals, intervals[1:3, ])

# remove the second interval
dataSubset <- imotionsApi::truncateSignalsByIntervals(signals, intervals[2, ], dropIntervals = TRUE)

## End(Not run)</pre>
```

unloadStudies

Remove studies that have been loaded in the current session.

Description

This function can be used when new changes have been made to already loaded studies.

Usage

```
unloadStudies()
```

Value

"Studies successfully removed from the current session" if success.

Examples

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
studyId <- studies$id[1]
study <- imotionsApi::imStudy(connection, studyId)
unloadStudies()
## End(Not run)</pre>
```

uploadAOIRespondentMetrics

Upload metrics for a specific respondent and AOI in a study.

Description

Upload metrics for a specific respondent and AOI in a study.

Usage

```
uploadAOIRespondentMetrics(study, AOI, respondent, metrics)
```

Arguments

An imStudy object as returned from imStudy()

AOI An imAOI object as returned from getAOIs.

respondent An imRespondent object as returned from getRespondents.

metrics A data.table containing the metrics to upload.

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Examples

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")
studies <- imotionsApi::listStudies(connection)
study <- imotionsApi::imStudy(connection, studies$id[1])
AOIs <- imotionsApi::getAOIs(study)
respondents <- imotionsApi::getRespondents(study, AOI = AOIs[1, ])
metrics <- data.frame("metric1" = 2, "metric2" = 234, "metric3" = 1234)
uploadAOIRespondentMetrics(study, AOIs[1, ], respondents[1, ], metrics)
## End(Not run)</pre>
```

uploadSensorData

Create a new sensor for a specific respondent in a study.

Description

Either signals (with a Timestamp column) or metrics (single values, with no Timestamp) can be uploaded. After processing, the sensor can then be viewed and exported locally through the iMotions Desktop.

Usage

```
uploadSensorData(
  params,
  study,
  data,
  target,
  sensorName,
  scriptName,
  metadata = NULL,
  stimulus = NULL
)
```

Arguments

params	The list of parameters provided to the script - specific parameters value will be stored as metadata.
study	An imStudy object as returned from imStudy.
data	A data.table containing the signals/metrics to upload (imData object are also accepted).
target	The target respondent for the sensor (an imRespondent object as returned from getRespondents).
sensorName	The name of the new sensor you would like to create.
scriptName	The name of the script used to produce these signals/metrics.
metadata	Optional - a data.table with metadata information. Column names will be converted to metadata headers and there must be a row corresponding to each data column.
stimulus	Optional - an imStimulus object as returned from getStimuli to upload data

specific to this stimulus.

22 uploadSensorData

Details

Params required field are "iMotionsVersion" and "flowName" (flow name will be use as "instance" of the new sensor)

```
## Not run:
connection <- imotionsApi::imConnection("xxxxxxxx")</pre>
studies <- imotionsApi::listStudies(connection)</pre>
study <- imotionsApi::imStudy(connection, studies$id[1])</pre>
respondents <- imotionsApi::getRespondents(study)</pre>
data <- data.frame("Timestamp" = seq(1:100), "Thresholded value" = rep(0, 100))</pre>
params <- list("iMotionsVersion" = 8, "flowName" = "Test")</pre>
uploadSensorData(params, study, data, respondents[1, ], sensorName = "New sensor",
                  scriptName = "Example Script")
# Uploading data to a specific stimulus
stimuli <- imotionsApi::getStimuli(study)</pre>
uploadSensorData(params, study, data, respondents[1, ], sensorName = "New sensor",
                 scriptName = "Example Script", stimulus = stimuli[1, ])
# Adding some metadata to the data
metadata <- data.table("Units" = c("ms", ""), "Show" = c("FALSE", "TRUE"))</pre>
uploadSensorData(params, study, data, respondents[1, ], sensorName = "New sensor",
                  scriptName = "Example Script", metadata)
## End(Not run)
```

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